

NOTICE OF OFFICE OF MANAGEMENT AND BUDGET ACTION

Date 12/07/2017

Department of Commerce
National Oceanic and Atmospheric Administration

FOR CERTIFYING OFFICIAL: Rod Turk
FOR CLEARANCE OFFICER: Jennifer Jessup

In accordance with the Paperwork Reduction Act, OMB has taken action on your request received 08/16/2017

ACTION REQUESTED: Reinstatement with change of a previously approved collection

TYPE OF REVIEW REQUESTED: Regular

ICR REFERENCE NUMBER: 201708-0648-001

AGENCY ICR TRACKING NUMBER:

TITLE: Socioeconomics of Users and Non Users of Grays Reef National Marine Sanctuary

LIST OF INFORMATION COLLECTIONS: See next page

OMB ACTION: Approved without change

OMB CONTROL NUMBER: 0648-0625

The agency is required to display the OMB Control Number and inform respondents of its legal significance in accordance with 5 CFR 1320.5(b).

EXPIRATION DATE: 12/31/2020

DISCONTINUE DATE:

BURDEN:	RESPONSES	HOURS	COSTS
Previous	0	0	0
New	479	292	0
Difference			
Change due to New Statute	0	0	0
Change due to Agency Discretion	479	292	0
Change due to Agency Adjustment	0	0	0
Change due to PRA Violation	0	0	0

TERMS OF CLEARANCE:

OMB Authorizing Official: Dominic J. Mancini
Deputy and Acting Administrator,
Office Of Information And Regulatory Affairs

List of ICs

IC Title	Form No.	Form Name	CFR Citation
Survey of NMS users from private household boats	NA	Questionnaires for users of Gray's Reef National Marine Sanctuary	
Survey of non-users from Georgia's resident population	NA	Questionnaires for those who do not use or visit Gray's Reef National Marine Sanctuary	
Survey of for-hire fishing operations	NA	Survey of for-hire fishing operations	
Survey of for-hire diving operations	NA	Questionnaire for for-hire diving operations	

PAPERWORK REDUCTION ACT SUBMISSION

Please read the instructions before completing this form. For additional forms or assistance in completing this form, contact your agency's Paperwork Clearance Officer. Send two copies of this form, the collection instrument to be reviewed, the supporting statement, and any additional documentation to: Office of Information and Regulatory Affairs, Office of Management and Budget, Docket Library, Room 10102, 725 17th Street NW, Washington, DC 20503.

1. Agency/Subagency originating request	2. OMB control number b. <input type="checkbox"/> None a. _____ - _____
3. Type of information collection (<i>check one</i>) a. <input type="checkbox"/> New Collection b. <input type="checkbox"/> Revision of a currently approved collection c. <input type="checkbox"/> Extension of a currently approved collection d. <input type="checkbox"/> Reinstatement, without change, of a previously approved collection for which approval has expired e. <input type="checkbox"/> Reinstatement, with change, of a previously approved collection for which approval has expired f. <input type="checkbox"/> Existing collection in use without an OMB control number For b-f, note Item A2 of Supporting Statement instructions	4. Type of review requested (<i>check one</i>) a. <input type="checkbox"/> Regular submission b. <input type="checkbox"/> Emergency - Approval requested by _____ / _____ / _____ c. <input type="checkbox"/> Delegated
7. Title	5. Small entities Will this information collection have a significant economic impact on a substantial number of small entities? <input type="checkbox"/> Yes <input type="checkbox"/> No
8. Agency form number(s) (<i>if applicable</i>)	6. Requested expiration date a. <input type="checkbox"/> Three years from approval date b. <input type="checkbox"/> Other Specify: _____ / _____
9. Keywords	
10. Abstract	
11. Affected public (<i>Mark primary with "P" and all others that apply with "x"</i>) a. ___ Individuals or households d. ___ Farms b. ___ Business or other for-profit e. ___ Federal Government c. ___ Not-for-profit institutions f. ___ State, Local or Tribal Government	12. Obligation to respond (<i>check one</i>) a. <input type="checkbox"/> Voluntary b. <input type="checkbox"/> Required to obtain or retain benefits c. <input type="checkbox"/> Mandatory
13. Annual recordkeeping and reporting burden a. Number of respondents _____ b. Total annual responses _____ 1. Percentage of these responses collected electronically _____ % c. Total annual hours requested _____ d. Current OMB inventory _____ e. Difference _____ f. Explanation of difference 1. Program change _____ 2. Adjustment _____	14. Annual reporting and recordkeeping cost burden (<i>in thousands of dollars</i>) a. Total annualized capital/startup costs _____ b. Total annual costs (O&M) _____ c. Total annualized cost requested _____ d. Current OMB inventory _____ e. Difference _____ f. Explanation of difference 1. Program change _____ 2. Adjustment _____
15. Purpose of information collection (<i>Mark primary with "P" and all others that apply with "X"</i>) a. ___ Application for benefits e. ___ Program planning or management b. ___ Program evaluation f. ___ Research c. ___ General purpose statistics g. ___ Regulatory or compliance d. ___ Audit	16. Frequency of recordkeeping or reporting (<i>check all that apply</i>) a. <input type="checkbox"/> Recordkeeping b. <input type="checkbox"/> Third party disclosure c. <input type="checkbox"/> Reporting 1. <input type="checkbox"/> On occasion 2. <input type="checkbox"/> Weekly 3. <input type="checkbox"/> Monthly 4. <input type="checkbox"/> Quarterly 5. <input type="checkbox"/> Semi-annually 6. <input type="checkbox"/> Annually 7. <input type="checkbox"/> Biennially 8. <input type="checkbox"/> Other (describe) _____
17. Statistical methods Does this information collection employ statistical methods <input type="checkbox"/> Yes <input type="checkbox"/> No	18. Agency Contact (person who can best answer questions regarding the content of this submission) Name: _____ Phone: _____

19. Certification for Paperwork Reduction Act Submissions

On behalf of this Federal Agency, I certify that the collection of information encompassed by this request complies with 5 CFR 1320.9

NOTE: The text of 5 CFR 1320.9, and the related provisions of 5 CFR 1320.8(b)(3), appear at the end of the instructions. *The certification is to be made with reference to those regulatory provisions as set forth in the instructions.*

The following is a summary of the topics, regarding the proposed collection of information, that the certification covers:

- (a) It is necessary for the proper performance of agency functions;
- (b) It avoids unnecessary duplication;
- (c) It reduces burden on small entities;
- (d) It used plain, coherent, and unambiguous terminology that is understandable to respondents;
- (e) Its implementation will be consistent and compatible with current reporting and recordkeeping practices;
- (f) It indicates the retention period for recordkeeping requirements;
- (g) It informs respondents of the information called for under 5 CFR 1320.8(b)(3):
 - (i) Why the information is being collected;
 - (ii) Use of information;
 - (iii) Burden estimate;
 - (iv) Nature of response (voluntary, required for a benefit, mandatory);
 - (v) Nature and extent of confidentiality; and
 - (vi) Need to display currently valid OMB control number;
- (h) It was developed by an office that has planned and allocated resources for the efficient and effective management and use of the information to be collected (see note in Item 19 of instructions);
- (i) It uses effective and efficient statistical survey methodology; and
- (j) It makes appropriate use of information technology.

If you are unable to certify compliance with any of the provisions, identify the item below and explain the reason in Item 18 of the Supporting Statement.

Signature of Senior Official or designee

Date

Agency Certification (signature of Assistant Administrator, Deputy Assistant Administrator, Line Office Chief Information Officer, head of MB staff for L.O.s, or of the Director of a Program or StaffOffice)

Signature

Date

Signature of NOAA Clearance Officer

Signature

Date

SUPPORTING STATEMENT

SOCIOECONOMICS OF USERS AND NON-USERS OF GRAYS REEF NATIONAL MARINE SANCTUARY Reinstatement with Change

OMB CONTROL No. 0648-0625

A. JUSTIFICATION

1. Explain the circumstances that make the collection of information necessary.

This request is for a reinstatement with changes to OMB Control No. 0648-0625 for replication of the surveys of users and non-users of Gray's Reef National Marine Sanctuary (GRNMS).

The National Marine Sanctuaries Act (16 USC 1431, et seq.) (NMSA) authorizes the use of research and monitoring within National Marine Sanctuaries (NMS). In 1981, the GRNMS was added to the system of NMS.

The NMSA specifies that each NMS should revise their management plans on a five-year cycle. The GRNMS last revised their plan in 2013 and has begun the management plan review process. The NMSA also allows for the creation of Sanctuary Advisory Councils (SACs). SACs are comprised of representatives of all NMS stakeholders. Management Plan Review (MPR) is a public process and the SACs, along with a series of public meetings, are used to help scope out issues in revising the management plans and regulations. SAC Working Groups are often used to evaluate management or regulatory alternatives. In the last MPR for the GRNMS, two major issues emerged; prohibition of spear fishing and establishment of a research-only area. The spear fishing regulation was published in the Federal Register February 19, 2010 (FR/Vol. 75, No. 33, 7361-7367) and went into effect March 22, 2010. The "research only area" was established and was published in the Federal Register October 14, 2011 (FR/Vol. 76, No. 199, 63824-63833) and went into effect November 28, 2011.

In the current MPR, there is a need to report on subsequent changes in use in GRNMS after implementation of the research only area and the attitudes and perceptions of users and non-users on the establishment of the research-only area in the GRNMS and establishment off the Georgia coast of research only areas outside GRNMS. In addition, potential expansion of the GRNMS is being considered by GRNMS management, so attitudes of users and non-users of potential expansion of GRNMS boundaries will also be addressed.

To address each one these issues, the GRNMS Management and SAC or SAC Working Group is provided a socioeconomic panel to develop information and tools to assess the socioeconomic impacts of management strategies and regulatory alternatives. Dr. Vernon R. (Bob) Leeworthy, the Office of the National Marine Sanctuaries (ONMS) Chief Economist, leads the socioeconomic panel, which can include other social scientists from other agencies or from

universities. The information and tools developed in this process also provide the necessary information for meeting agency requirements for socioeconomic impact analyses under the National Environmental Policy Act (NEPA), Executive Order 12086 (Regulatory Impact Review) and an Initial and Final Regulatory Flexibility Analyses (impacts on small entities, primarily small businesses).

The proposed effort by ONMS and GRNMS is part of the socioeconomic monitoring to test whether projected socioeconomic impacts of regulations actually occur and to inform an adaptive management process in review of management plan strategies and regulations. The surveys proposed here are designed to address changes in the knowledge, attitudes and perceptions of both Grays Reef Users and Non-users as to the GRNMS's management strategies and regulations. In the National Marine Sanctuaries Act, ONMS has a mandate to balance both conservation (direct uses of Sanctuary resources) and preservation (non-use or passive economic use i.e. people have value for simply knowing the resources are protected in a certain condition even though they do not directly use it).

2. Explain how, by whom, how frequently, and for what purpose the information will be used. If the information collected will be disseminated to the public or used to support information that will be disseminated to the public, then explain how the collection complies with all applicable Information Quality Guidelines.

How and Purpose

This information request involves compiling socioeconomic information for users and non-users of GRNMS. Users include those who access GRNMS via private household boats and for-hire recreational dive operations and for-hire recreational fishing operations (charter and party/head boat operations). Non-users will include random sample of Georgia households stratified between coastal and non-coastal counties. Socioeconomic information includes socioeconomic/demographic profiles (e.g. age, race/ethnicity, income, and household/family size), costs-and-earnings of business operation, spatial use patterns, and knowledge, attitudes, and perceptions (KAP) of GRNMS existing and proposed management strategies and regulations.

The purpose of the information collection is to obtain the necessary information to monitor and assess the socioeconomic impacts of management strategies and regulations and inform the adaptive management process in revising management strategies and regulations. In addition, information is obtained to support education & outreach efforts to better understand GRNMS stakeholders and to communicate effectively with them.

USERS VIA PRIVATE HOUSEHOLD BOATS

For the users that access GRNMS via private household boats, the survey includes information that can be described in eight separate sections or modules of questions. To reduce respondent burden and increase response rates to the survey, the survey has been divided into two versions

of the questionnaire that will be implemented to the same sample of users, but spaced over a two-year period.

Version 1 of the survey includes sections 2, 3, 4, 5, 6 and 8, while Version 2 includes sections 1, 3, 4, 5, 7 and 8 (See Table 1). Table 1 also includes the estimated time for completion of each section/module of questions in each version and the total estimated time of completion for each version of the survey questionnaire. Within each version of the questionnaires, the section numbers do not correspond to those in Table 1 as they are organized numerically in a continuous manner for clarity. Section descriptions are used as headings for each section within the survey questionnaires.

Section 1 obtains information on user’s opinions about ocean & coastal resources protection. Section 2 obtains information on user’s attitudes about GRNMS’s current management strategies and regulations. Section 3 obtains information on what sources of information users’ use and trust for issues related to ocean & coastal resources and GRNMS and ways users prefer to receive information about GRNMS. Section 4 obtains information on users perceptions of the status and condition of resources in GRNMS. Section 5 obtains information on the recreation activities and use of ocean & coastal resources in and around Georgia and in the GRNMS. Section 6 obtains information on user’s main or primary activity in ocean & coastal areas and information to classify users according to how specialized they are in their activities. Section 7 obtains information on the ways users’ value ocean & coastal resources/marine environment. Finally, Section 8 obtains information on socioeconomic/demographic information of users.

Table 1. Information and Survey Times for Different Versions of User and Nonuser Surveys

Section	Section Description	Users		Nonusers	
		Version 1 (Minutes)	Version 2 (Minutes)	Version 1 (Minutes)	Version 2 (Minutes)
1	Opinions about Ocean & Coastal Resources Protection and Management		20		20
2	Attitudes about GRNMS Current Management Strategies and Regulations	15		15	
3	Sources of Information on Ocean & Coastal Resources and GRNMS	5	5	5	2
4	Status and Conditions of the Resources in GRNMS	2	2		
5	Activities in Ocean & Coastal Areas in and around Georgia and in the GRNMS	6	6	3	3
6	Activity Specialization	5			
7	Ways you Value Ocean & Coastal Resources/ Marine Environment		2		2
8	Information about Yourself	3	3	3	3
All		36	38	26	30

Graphical, Visual and Symbolic Language Design. Throughout the questionnaires for users and non users, which are self-administered mail surveys, we have followed design principles found

in Morrison et al (2010), Dillman et al (2005), Christian and Dillman (2004), Redline et al (2001) and Stern et al (2007). For questions using five-point Likert scale type responses, we used the polar point method of labeling responses as found in Christian and Dillman (2004, figure 2, pg. 73) and in Stern et al (2007, page 126).

Section 1: Opinions about Ocean & Coastal Resources Protection and Management. This section contains 13 questions. First a definition of ocean & coastal areas is provided along with a map of coastal and ocean areas in Georgia and GRNMS. Questions 1 and 2 focus on user's greatest concerns about the health of ocean & coastal resources both in and around Georgia (Question 1) and in the GRNMS (Question 2). There are 15 items (labeled a to o) in each question where users are asked to score on a scale of one (1) to five (5) with 1=No Concern to 5=Maximum Concern. The questions used here have been adapted from the "Ocean Project" using the polar point concern scale, except that we have changed to the use of a five point Likert scale versus the 0 to 100 scale with a number response used by the "Ocean Project" based on the findings from Christian and Dillman (2004) and Stern et al (2007). **Change in these questions was the addition of another element "Human produced noise (from human activities)", which is an emerging issue in National Marine Sanctuaries.**

Questions 3 and 4 are general questions about the support for ocean & coastal protection both in and around Georgia and outside GRNMS (Question 3 and in GRNMS (Question 4). Again, a 1 to 5 scale is used with 1=No Support and 5=Maximum support. This question sets the stage for pursuing more specific forms of protection in questions 5 through 11.

Questions 5 through 11 addresses more specific forms of management strategies and regulations. Each type of management strategy or regulation is preceded by a short description of the problem or context and a definition of the management strategy or regulation using bulleted sentences. Support for the general management strategy of marine zoning is asked in Question 5 with a simple yes/no response. A skip pattern is employed here so users that do not support the general management strategy are not asked about specific forms of the marine zoning strategy. For those who answer "yes" to Question 5, Questions 6 through 9 are asked, while for those who say "no", they are asked to skip to question 12.

Questions 6 and 7 address the marine zoning strategy of "marine reserves" or "no-take areas". Question 6 does this for areas in Georgia outside GRNMS, while Question 7 asks this for areas inside GRNMS. A definition of marine reserves is first provided using six bulleted sentences, then, Questions 6 and 7 ask users to score their support for the use of marine reserves in Georgia ocean & coastal areas outside GRNMS and inside GRNMS. Again the scale used is 1 to 5 with 1=No Support and 5=Maximum support.

Question 8 is a follow on to Question 7 to ask about users opinions on the amount of displacement, which they find acceptable for activities that would be displaced by marine reserves/no-take areas. Even though in our experience users understand the term "displacement", we have replaced it with the simple term "impact" with bulleted information using the terms social and economic impacts. Users are first reminded of the activities that involve taking of resources will be impacted and that the amount of potential impact would be based on the size of the area placed in marine reserve/no-take status. Users are asked to provide

the percent of acceptable impact on each of nine activities (labeled a to i) potentially impacted by the marine reserves zoning strategy.

Questions 9 through 11 address the marine zoning concept of “research only areas”. First, a definition is provided of “research only areas” to describe what activities are and are not allowed and the general purpose of “research only areas” using four bulleted sentences. Questions 9 and 10 ask users to rate their support for this type of management strategy using the 1 to 5 scale for use of “research only areas” in Georgia ocean & coastal areas outside GRNMS (Question 9) and inside GRNMS (Question 10). Question 11 follows up on Question 10 what percent of impact is acceptable to them on each of 11 activities (labeled a to k) that will be potentially impacted by ‘research only areas’. **A change was required here because the research only area in GRNMS was established in 2011. Original questions 10 and 11 asked about research only areas in general, now the question asks specifically about the research only area established in the GRNMS.**

Question 12 and 13 focus on a management strategy currently being used and expanded upon under the new Ocean Action Plan called ecosystem-based management. There are two forms of ecosystem-based management evaluated here. One form of ecosystem-based management is more limited and restricted to fishery management. The other is called full ecosystem-based management and involves the balancing of all human uses incorporating humans fully into the ecosystem. Question 12 addresses the change in fishery management from single species management to multiple species management. Users are asked to rate their support for the fishery management change from species specific to the ecosystem-based multiple species management using the 1 to 5 scale with 1=No support and 5=Maximum Support. Question 13 does the same thing for the full ecosystem-based management approach.

Section 2: Attitudes about GRNMS Current Management Strategies and Regulations. The questions are the same as used in 2010-2011 with some minor changes.

This section contains 17 questions or 17 items to be scored.. All questions (items) in this section use a five-point Likert scale on agreement with statements about GRNMS management strategies and regulations, the processes used to create the strategies and regulations, and the enforcement of regulations. The five point scale is on the agreement scale with 1=Strongly Agree and 5=Strongly Disagree. A Don’t Know (DK) response is also allowed and is placed to the right of the five point scale.

Section 3: Sources of Information on Ocean & Coastal Resources and GRNMS. This section contains five questions. The first two questions are about information sources used and level of trust of those sources. The third question asks about respondent’s preferences on how they like to receive information. We pursue both formal and informal sources of information. The next two questions are knowledge related questions as to knowledge of management/regulatory agencies and level of familiarity with GRNMS regulations. All information in this section is designed to assist in the GRNMS education and outreach program.

The second question in this section asks users to rate each source they use (determined in the first question in this section) as to their level of trust. Our research in other National Marine

Sanctuaries finds that the most used sources are not always the most trusted. Level of trust is rated on a five-point Likert scale where 1=No Trust at All to 5=Completely Trust. The third question that asks for user's preferences for how they would like to receive information and users are asked to check all that apply. **A couple of changes were made to this section. The use of social media has evolved since 2010-2011. We added specific new sources of information breaking out GRNMS's Facebook Page and Twitter Feed and then created an Other Social Media source for all other forms of social media. We also added Social Media as an item in Q. 20 that addresses how people prefer to receive information.**

The fourth question in this section asks users if they know who sets policy/management for National Marine Sanctuaries and for fisheries in ocean and coastal areas. Users are asked to name the agencies. Question five in this section simply asks users their familiarity with GRNMS regulations. Respondents are asked to check only one from the choices of "Very familiar", "Somewhat familiar", and "I am not familiar with any of the rules or regulations". **Here we made a minor change by adding in parentheses "Federal waters" to item b. For Ocean areas of Georgia.**

Section 4: Status and Conditions of the Resources in GRNMS. Again, the questions are the same as used in 2010-2011 with minor changes.

There is one question with 14 items (labeled a to n) in this section with the items corresponding to eleven different resources. Users are asked to rate conditions on a five-point Likert scale where 1=Getting better to 5=Getting worse. A "Don't Know" response is also allowed for and is provided to the right of the five-point scale for each item. **Here we added three new items and divided them into "RESOURCES" (11 items) and "PRESSURES" (3 items). The three new items are the "PRESSURES". L. Underwater human produced noise from human activities, m. Ocean Acidification (ph. level harms shellfish and corals), and n. Climate Change. PRESSURES are an important issue in ONMS Condition Reports that evaluate the status and trends of the conditions of sanctuary resources using the integrated conceptual model "Driving forces-Pressures-State-Ecosystem Services-Response (DPSER) Model". DPSER is also the standard model used by NOAA in integrated ecosystem assessments.**

Section 5: Activities in Ocean & Coastal Area in and around Georgia and in GRNMS. In this section, we focus on the recreation activities users engage in both in the ocean & coastal areas off Georgia and in GRNMS. The list of recreation activities was expanded to include activities that do not take place in GRNMS, but which take place in Georgia. We obtain information on activities done inside both GRNMS and Georgia in general to assess the extent of substitution between Georgia in general and GRNMS. In addition, this type of information has been used to explain people's attitudes and preferences for ocean and coastal resource protection.

There are six questions in this section. The first question asks about which activities people engage in both ocean & coastal waters off Georgia and in GRNMS. Simple check boxes are used for eight specified activity types known to be done both off Georgia and in GRNMS. For an additional seven activities that take place off Georgia, but not in GRNMS, we provide check boxes only for Georgia. The second question addresses intensity of use asking for the number of

days by type of activity for 2010. Days in Georgia and days in GRNMS are asked. A special instruction in bold type is provided explaining that “if all days were in GRNMS, then code all your days in Georgia and GRNMS. **Here we added two new activities that have emerged since 2010-2011 in importance off the Georgia coast: Kayaking and Paddle Boarding. However, these activities are not done in GRNMS and are marked as not relevant for days of activity in GRNMS.**

The third question asks for further breakdowns of the days of activities in GRNMS by type of boat access (e.g. private, charter or party). Even though the survey is of those whom we know accessed the GRNMS via private household boat, there is the possibility that some of these users also access the GRNMS via other boat modes. **In this question asking about days of activity by boat mode of access, we eliminated the Party Boat Mode, since no known Party boats take people out to GRNMS.**

The fourth question asks for how many people are usually with the respondent when they are out on their private boat. Currently we have estimates of the total number of private boats that access GRNMS, but we have to use estimates from other surveys off Georgia for the average number of people aboard private household boats. We will be able to test if our estimate is significantly different and if it significantly alters our estimates of total activity.

We know that many fishing tournaments take place in GRNMS. The fifth question asks respondents if they participate in fishing tournaments in GRNMS. Check boxes are used for three possible responses “Yes”, “No”, and “Don’t fish”. When combined with the answer to the first two questions in this section, this question obtains information on how many of those who fish in tournaments access the GRNMS via private household boats.

The sixth and final question in this section will allow us to understand GRNMS users as to what factors influence their choice of GRNMS over other sites. Again, adds further information to help assess the issue of substitution. Ten factors (labeled a to j) are listed and respondents are asked to answer each item by circling the appropriate response from the choice of “Yes”, “Somewhat”, or “Not at all”. **For this question, we added “Regulations” to the list of items.**

Section 6: Activity Specialization. The literature in Human Dimensions of resource management has found that classifying users according to their main or primary activity and how specialized they are in that activity is a good predictor of how different groups respond to management strategies, rules and regulations. These questions were asked in the 2010-2011 survey and will be repeated in the current application.

This section includes eight questions. The answers to any one question alone have very little meaning. The use of the answers to all the questions in this section is used to classify users, by main or primary activity, according to their level of specialization in the activity.

The first question in this section identifies the “main” or “primary” activity of the respondent in coastal & ocean areas off the coast of Georgia, including activities in the GRNMS. The next four questions have listed responses with check boxes next to each response and the respondent is asked to check one box for each question. The next question asks for a dollar amount response

on what it would cost to replace their current equipment used in their main or primary activity.

The seventh question in this section asks again about use of information obtained on their primary activity. Eleven sources of information are listed and the respondent is asked to rate the level of use on a five point scale with 1=No Use to 5=A lot of Use. The eighth and final question in this section provides a list of reasons why people engage in recreation activities. Twelve reasons are listed (labeled a to l) and respondents are asked how important each of these reasons are for participating in their primary activity. A five point scale is used with 1=Not at all important to 5=Extremely important.

Section 7: Ways Users Value Oceans & Coastal Resources/Marine Environment. This is not an attempt to derive dollar values of users' economic value for ocean & coastal resources, but instead simply addresses people's relative preferences for different goods and services derived from ocean & coastal resources and what actions users would take to ensure ocean & coastal resources would be sustainable so future generations could enjoy them.

There are just two questions in this section. The first question asks users to score their value for each of the ten uses of ocean & coastal resources on a scale of 1 to 5 where 1=no value to 5=maximum value. The second question identifies nine actions and a place for other (specify) which users might take and ask them to score them on a scale of 1 to 5 with 1="Would not do" to 5="Would do the Maximum.

Section 8: Information about the User: In this final section of the survey, we ask for socioeconomic/demographic information and for questions commonly asked in the U.S. Census of population, we use consistent response categories so that general comparisons can be made between general Georgia residents and GRNMS users. From past research, we know that these individual characteristics are statistically significant factors in explaining activity participation and use or in knowledge, attitudes and perceptions.

There are 13 questions in this section. Questions include socioeconomic/demographic characteristics such as ethnicity, race, sex, age, level of education, household income, household size, household type, employment status, and occupation. Additional information is asked on boat ownership and memberships in groups or clubs. Place of residence is not needed since this information is already available through users known mail address, which will be used to create data base variables on zip code, city and county of residence.

For one item (employment status), we depart from that used in the U.S. Bureau of Census, "the American Community Survey". We do not have the same objective as that intended for by the Census in achieving consistent estimates for calculating unemployment rates. Our categories are consistent with other research we have done relating categories to explaining different behaviors. Here we use the "check all that apply" format to our categories, since people can be classified in multiple categories.

NON-USERS OF GRNMS FROM GEORGIA'S GENERAL POPULATION

For the non-users of GRNMS from the general population of Georgia, the survey is divided into

two versions to reduce burden on respondents with the objective of keeping surveys within an estimated time of completion of 30 minutes. Since subject matter will be of less salience to non-users, we have designed the survey to meet the requirement of taking, on average, 30 minutes of less to complete. Version 1 includes sections (discussed above for users) 2, 3, 5 & 8 and is estimated to take 26 minutes to complete. Version 2 includes sections 1, 3, 5, 7 & 8 and is estimated to take 30 minutes to complete. It is important to note that for non users sections 4 and 6 as we did with users since non users would not be expected to know the status of conditions of GRNMS (section 4) or would we need section 6 (Activity Specialization) to help us predict how they would respond to regulations in the GRNMS. Eliminating these two sections allows us to minimize burden and increase response rates. In addition, sections 3 (Sources of Information) and section 5 (Activities in Ocean & Coastal Areas in and around Georgia and in the GRNMS) are shortened for non users. We expect non-users will use much fewer sources of information and thus will not have to rate many for trust of the sources and since they do not use GRNMS, section 5 is much shorter. See Table 1 for the sections included in each version and the estimated times for completion of the survey by respondents.

FOR-HIRE RECREATIONAL DIVING OPERATIONS

The questionnaire for the for-hire recreational diving operations is divided into two parts. Part 1 obtains basic socioeconomic/demographic information, costs-and-earnings, and spatial distribution of use. Part 2 obtains knowledge, attitudes and perceptions of existing and proposed management strategies and regulations. Past research and advice from members of the SAC representing the dive industry informed us that dive operations also take people out for recreational fishing and wildlife observation tours (e.g. whale watching, bird watching, etc.). The questionnaire was modified to account for this practice.

The survey is administered in the office of the business establishment or home if it is a home based business by a team contracted by NOAA. Part 1 of the survey is largely a records-based approach where the business operation provides records from which the team fills in the questionnaire. Part 2 of the survey includes attitudes and perceptions and the team usually reads the questions to the respondent and codes the responses. The respondent is provided a copy of the questionnaire to see the codes for the proper response.

Part 1: General Information, Economic Information and Person-days and Trip Costs. The questions are similar to those approved under OMB Control Number 0648-0534, for the Florida Keys National Marine Sanctuary (FKNMS) and OMB Control Number 0648-0597, for the for-hire diving and fishing operations in the Northwest Gulf of Mexico in support of the Flower Gardens Bank National Marine Sanctuary (FGBNMS). The questions have been slightly modified to fit the GRNMS. **There are no changes from 2010-2011 survey.**

General Information: This section obtains information to develop socioeconomic/demographic profiles and support analyses of socioeconomic impacts.

Economic Information: This section addresses costs-and-earnings of the dive operation. This section was designed to conform to other studies being conducted on the economics of the Gulf of Mexico and South Atlantic recreational for-hire fishing operations, but modified to take into

account the differences for diving and wildlife observation activities (see answer to Question 4 below on Duplication of Effort). Questions 14 thru 17 focus on the operations capacity for number of passengers on all their vessels, by type of activity. Question 18 asks for the number of employees by classification (e.g. full, part-time, or seasonal). Questions 19 and 20 focus on the replacement value of current equipment and gear and the balance of any loans for vessels and equipment. This information will help assess the return on capital and equity. Question 21 focuses on other overhead expenses, while Question 22 addresses trip related expenses. Questions 21 and 22 ask for annual expenses for the past year. This is the recommendation of NOAA Fisheries economists doing similar work on for-hire recreational fishing operations in the Gulf of Mexico and South Atlantic, so we are maintaining consistency of information collection across different efforts.

Questions 23 and 24 focus on total dive operation revenues for the past year and the distribution by major spatial units inside an outside GRNMS. This information will establish dependency on the different areas for dive operation revenues.

Person-days and Trip Costs: Question 25 provides control totals for each major area by type of activity. Person-days are the best measurement of use for recreational activities. A definition is provided which says a person-day is one person doing an activity for a whole day or any part of the day. This measurement corresponds generally to what the operations record in their logbooks as the number of passengers taken to a specific location on a specific day. There is some potential for double counting across activities, so totals across activities is asked and it is not required that the sum by activity equal the total.

Question 26 provides detailed costs per day of operation by type of activity. This information will provide the basis of estimating the economic impacts on a dive operation from different management strategies or regulations that affect the amount of activity.

Question 27 takes a different approach in obtaining detailed spatial resolution of “expected person-days”. The purpose of this information is to assess the potential impacts of boundary expansion of research only areas or other kind of zoning regulation. This is by its nature forward looking, thus past spatial distribution of effort may not be good representation of future impact. Dive owners/operators will be asked to provide the percent distribution of where they expect to undertake their future effort by type of activity at spatial resolutions of 1-minute-by-1-minute of one nautical square mile grid cells. Detailed maps will be provided with NOAA Nautical chart layers with latitude and longitude lines and key reference point such as different weather buoys and the key bottom bank structures and depth contours. The person-day totals provided in Question 25 will provide the information to weight percentage distributions across dive operations when extrapolating to population totals by spatial unit.

Part 2: Knowledge, Attitudes & Perceptions of Sanctuary Management Strategies and Regulations. The questions are similar to those submitted under OMB Control Number 0648-0534, Expiration Date: 7/31/2009, which is focused on a 10-year replication for three user groups; commercial fishermen, dive shop owners/operators, and members of local environmental groups in the Florida Keys National Marine Sanctuary (FKNMS) and OMB Control Number 0648-0597, Expiration Date: 11/30/2012 for the for-hire diving and fishing operations in the

Northwest Gulf of Mexico in support of the Flower Gardens Bank National Marine Sanctuary (FGBNMS). . The questions have been modified to the issues in the GRNMS, but follow the same general format. **There are no changes from the 2010-2011 application.**

This module contains 27 questions.

FOR-HIRE RECREATIONAL FISHING OPERATIONS

As with the for-hire recreational diving operations, the questionnaire for the for-hire recreational fishing operations is divided into two parts. Part 1 obtains basic socioeconomic/demographic information, costs-and-earnings, and spatial distribution of use. Part 2 obtains knowledge, attitudes and perceptions of existing and proposed management strategies and regulations.

Part 1: General Information, Economic Information, and Person-days and Trip Costs. The questions are similar as those approved under OMB Control Number 0648-0534, for the Florida Keys National Marine Sanctuary (FKNMS) and OMB Control Number 0648-0597, for the for-hire diving and fishing operations in the Northwest Gulf of Mexico in support of the Flower Gardens Bank National Marine Sanctuary (FGBNMS). The questions have been slightly modified to fit the GRNMS. **There are no changes from the 2010-2011 application.**

General Information: This section obtains information to develop socioeconomic/demographic profiles and support analyses of socioeconomic impacts. Information in this section is the same as in the for-hire diving operations questionnaire with slight modifications for the for-hire recreational fishing operations.

Economic Information: This section addresses costs-and-earnings of the fishing operation. Again, this section is similar to that for the for-hire diving operations with only slight modifications.

Person-days and Trip Costs: Questions 23 and 24 provide control totals for each major area, and again this section is similar to that used for the for-hire diving operations with slight modifications.

Part 2: Knowledge, Attitudes & Perceptions of Sanctuary Management Strategies and Regulations. The questions are similar to those submitted under OMB Control Number 0648-0534, Expiration Date: 7/31/2009, which is focused on a 10-year replication for three user groups; commercial fishermen, dive shop owners/operators, and members of local environmental groups in the Florida Keys National Marine Sanctuary (FKNMS) and OMB Control Number 0648-0597, Expiration Date: 11/30/2012 for the for-hire diving and fishing operations in the Northwest Gulf of Mexico in support of the Flower Gardens Bank National Marine Sanctuary (FGBNMS). . The questions have been modified to the issues in the GRNMS, but follow the same general format. **There are no changes from the 2010-2011 application.**

This module contains the same 27 questions used for the for-hire diving operations. Question 15 was modified to focus on charter/party boat (for-hire fishing) operators.

By Whom

At this time we have not selected a contractor to implement the survey. Dr. Vernon R. (Bob) Leeworthy is the Chief Economist for the Office of National Marine Sanctuaries (ONMS) and will lead the overall effort. Bob will be the Contracting Officer's Technical Representative (COTR) on any contract to implement the survey. Bob and ONMS Senior Economist, Danielle Schwarzmann (under contract through the National Marine Sanctuary Foundation), will develop geographic information system (GIS) tools and socioeconomic models for estimating socioeconomic impacts of management strategies and regulatory alternatives.

How Frequently

This is the second application of this submission. We expect this will be replicated/updated every five to 10 years depending on management plan reviews and condition reports. However, it is ONMS policy to work with NMS stakeholders in designing socioeconomic research and monitoring programs, which would determine whether and how often to replicate measurements.

How Collection Complies with NOAA Information Quality Guidelines

Utility: Completing this information collection will give GRNMS stakeholders fair representation in the design of management strategies and regulations by providing information to support the assessment of socioeconomic impacts of management strategy and regulatory alternatives.

Education and outreach is an important management tool in the GRNMS. The information provided in this project will be an overwhelming boon to the Education and Outreach Program of the GRNMS. Knowledge of who are the users of the GRNMS, their knowledge, attitudes and perceptions of Sanctuary management strategies and regulations and, how users get their information are important in designing effective education and outreach efforts.

Integrity: Procedures have been established to protect the proprietary information provided by all respondents to all surveys. All personal identification information is removed from all databases to be sent to NOAA or distributed to the public. Each individual is assigned a database identification number in the database so the data from different portions of the survey can be linked for analysis. Release of proprietary information is further protected by the Freedom of Information Act (5 USC 522 (b) (4)) concerning trade secrets or proprietary information, such as commercial business and financial records.

All project reports are converted to Read-Only in portable document format (pdf) before being placed on the NOAA Web site for public dissemination.

Objectivity: All analyses and reports developed in this project will be peer reviewed before release to the public. This is the NOAA standard for socioeconomic information under the Information Quality Act. All survey modules of questions included in this project have all been

through peer review as well. Most of the survey questions have been tested and analyzed in previous applications. New modules of questions have been peer reviewed.

As explained in the preceding paragraphs, the information gathered has utility. NOAA will retain control over the information and safeguard it from improper access, modification, and destruction, consistent with NOAA standards for confidentiality, privacy, and electronic information. See response to Question 10 of this Supporting Statement for more information on confidentiality and privacy. The information collection is designed to yield data that meet all applicable information quality guidelines. Prior to dissemination, the information will be subjected to quality control measures and a pre-dissemination review pursuant to Section 515 of Public Law 106-554.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological techniques or other forms of information technology.

No automated, electronic, mechanical, or other technological or other forms of information technology are being used. All surveys are conducted by mail or face-to-face and recorded on paper forms.

4. Describe efforts to identify duplication.

In March 2009, an Economic Workshop, organized by the Gulf States Marine Fisheries Commission, was held in New Orleans, Louisiana. The purpose of the workshop was to assemble all researchers currently planning economic or socioeconomic studies on Gulf of Mexico commercial and recreational fisheries and share details of each proposed research design to avoid duplication of effort and consistency across applications. Further consultation with economists at NOAA's Fisheries Service, Southeast Fishery Science Center, which oversees all socioeconomic work in the fisheries for the Southeast Atlantic and Gulf of Mexico were made to ensure consistency and avoidance of duplication. It was determined that the proposed work here is unique and a valuable addition. Further, efforts are made in this submission to achieve consistency in measurement of similar information (i.e. costs-and-earnings categories for commercial and recreational fishing operations). This will allow for direct comparisons across similar populations throughout the South Atlantic and Gulf of Mexico.

Bob Leeworthy has also conducted a literature review to determine if and to what extent existing information might meet the needs for the GRNMS. The main thrust of this effort is to establish baselines for future monitoring efforts. Each user group was consulted on each component of the information collection to ensure we were not duplicating efforts and that user group members would comply with the information request.

Duke University (Bird et al 2001) conducted an analysis of recreational fishers' activities and attitudes in a survey implemented in April 2001. The survey only included 60 members of the Southern Kingfish Association using a mail survey. The mail survey got a response rate of 91

percent. Although an important user group, this survey is limited in representation of the population that accesses GRNMS via private household boats.

5. If the collection of information involves small businesses or other small entities, describe the methods used to minimize burden.

All the business entities in this information collection request can be classified as small businesses. Our approach is not to send out questionnaires to be filled out by these respondents. Instead, we send out an information collection team to the home or office of the business owner/operator and the information collection team works with the respondent to complete the information collection.

In arranging information collection interviews, our contractor (to be determined) contacts the business operation by mail (pre-notification letter), telephone and/or e-mail. The contractor explains the types of information we will be asking for in order for the respondent to prepare to make records available to the team. For cost-and-earnings, financial records will be needed. For spatial use information or catch information, access to logbooks will be requested. In past applications, business operations want us to send copies of the questionnaires to see what specifically we are asking for so they can assemble the necessary information for the collection team. Appointments are then made for the collection team (contractor) to visit the home or business to compile the information in our forms.

In 2015, we completed such an effort under OMB Control Number 0648-0597 for recreational for hire dive operations in the Northwest Gulf of Mexico in support of our Flower Gardens Bank National Marine Sanctuary. We got a 100% response rate and no item non-response. We have a tremendous amount of experience with these types of user groups and we know what kinds of records they keep. It is also important that representatives on our Sanctuary Advisory Council contact the groups they represent to tell them of the importance of our effort and encourage them to cooperate.

6. Describe the consequences to the Federal program or policy activities if the collection is not conducted or is conducted less frequently.

NOAA and the managers of the GRNMS, with the advice and consent from the GRNMS SAC, have agreed to build the necessary information and tools to allow for the assessment of socioeconomic impacts in the design of management strategies and regulations. The information collection proposed here is in response to the issues identified by the user groups as necessary elements of a socioeconomic impact analyses. The past management plan implementation is well underway and management plan review has begun in the GRNMS and the information collection proposed here is critical to meeting the needs of GRNMS stakeholders. In addition, many federal agencies that manage natural resources have been tasked by the National Academy of Sciences to adopt adaptive management practices. Adaptive management requires research and monitoring, both ecological and socioeconomic, to be able to assess what is happening to both the natural resources and the humans that depend upon those resources. The GRNMS has taken important steps along these lines and is living up to their compact with the stakeholders who are participating in the management plan implementation and revision process. Not

completing these data collections would leave NOAA and the GRNMS in violation of these agreements.

7. Explain any special circumstances that require the collection to be conducted in a manner inconsistent with OMB guidelines.

NA.

8. Provide a copy of the PRA Federal Register Notice that solicited public comments on the information collection prior to this submission. Summarize the public comments received in response to that notice and describe the actions taken by the agency in response to those comments. Describe the efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and recordkeeping, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported.

A Federal Register Notice published on April 12, 2017 (Vo. 82, No. 69, pg. 17639) solicited public comment on this collection. None was received.

9. Explain any decisions to provide payments or gifts to respondents, other than remuneration of contractors or grantees.

No payments or gifts are provided to respondents.

10. Describe any assurance of confidentiality provided to respondents and the basis for assurance in statute, regulation, or agency policy

As stated on the survey information for respondents, any identifying information (name, name of business, address and telephone number) will be viewed only by the contractor compiling the data, and will be destroyed by the contractor collecting the information at the end of the information collection. In addition, the Freedom of Information Act (5 USC 522(b)(4)) authorizes non-disclosure by a federal agency of trade secrets or proprietary information, such as commercial business and financial records. All other information will be available for distribution.

11. Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private.

No questions will be asked.

12. Provide an estimate in hours of the burden of the collection of information.

For users from private household boats, our source is a list of 500 users observed in the GRNMS by the Georgia Department of Natural Resources, which randomly boards boats in GRNMS, not necessarily in relation to violations of rules/regulations, and obtains boat registration numbers

and names and addresses of the boat owners. Two versions of the questionnaire were designed to minimize burden per respondent. Since the users are not likely to change significantly from year to year, we will have to survey the same users twice. The two versions will be implemented over a two-year period. We will send mail surveys to this list of users, with an expected response rate to be between 40 and 70 percent or 200 -350 completed interviews per version. We estimate Version 1 will require an estimated 36 minutes to complete for each respondent or a total burden hour requirement of between 120 to 210 hours, while Version 2 will require an estimated time per respondent of 38 minutes with a total burden hour requirement of 126.66 to 221.66 hours. When annualized over the three-year approval period, the estimates of burden hours are estimated at 40 to 70 hours for Version 1 and 42.22 to 73.89 hours for Version 2.

For non-users in the general population of the State of Georgia, we will randomly select 500 households from the U.S. Post Office database of deliverable household addresses and mail them the surveys. Samples will actually be purchased from either INFO USA or Survey Sampling, Inc., two firms that specialize in providing samples for mail surveys. As with the user's surveys, we will implement two versions of the non-user's survey to minimize burden per respondent. Unlike users, we will select separate samples of non-users for each survey version and implement both versions in year one. We expect a response rate between 40 and 70 percent yielding between 200 and 350 completed surveys for each version. For version 1, we estimate an average time per respondent to complete the survey of 26 minutes, while version 2 is estimated to take 30 minutes per respondent. Total burden hours for version 1 are estimated to be 86.66 to 151.66 hours, while version 2 is estimated at 100 to 175 hours. When annualized over the three-year approval period, the estimates for version 1 are 28.89 to 50.55 hours, while version 2 is estimated at 33.33 to 58.33 hours.

We estimate that there are approximately 20 to 30 for-hire recreational operations that take people out for fishing and diving. About a third accommodates both activities in GRNMS. This information was obtained through previous surveys. For the For-hire Recreational Diving Operations, we have identified a population of 10 operations through past research using telephone yellow pages, Georgia Sea Grant publications, and personal visits to coastal Georgia. We expect to get a 100% response rate or a census. The representative for the dive industry on the GRNMS SAC has assured us that all of their members are highly supportive of the effort and we should expect full cooperation. Again, we expect that, on average, the interview and compilation of information time will be three (3) hours, for a total of 30 hours.

For the For-hire Recreational Fishing Operations, we have identified an additional population of 30 operations. The number of for-hire recreational fishing operations, includes guides, which fluctuate from year-to-year. Again, we expect to get a 100% response rate or a census. The representatives for the recreational fishing industry have assured us that their members are highly supportive of the effort and we should expect full cooperation. Again, we expect that, on average, the interview and compilation of information time will be three (3) hours, for a total of 90 hours.

The total burden hour estimate across all four groups is estimated to be between 532.32 and 878.32 hours. If this estimate is annualized over three years, the estimate is between 174.44 and 292.77 hours per year.

Table 2. Estimate of Burden Hours

	Total	Annualized ¹
Estimated Number of Respondents		
Users from private household boats		
Version 1	200 - 350	66.66 - 116.66
Version 2	200 - 350	66.66 - 116.67
Non users from Georgia's resident population		
Version 1	200 - 350	66.66 - 116.66
Version 2	200 - 350	66.66 - 116.67
For hire recreational diving operations	10	3.33
For hire recreational fishing operations	20 - 30	6.66 - 10.0
Total	830 - 1,440	276.66 - 480
Estimated time per Respondent		
Users from private household boats		
Version 1	36 minutes	
Version 2	38 minutes	
Non users from Georgia's resident population		
Version 1	26 minutes	
Version 2	30 minutes	
For hire recreational diving operations	3 hours	
For hire recreational fishing operations	3 hours	
Estimated Total Annual Burden Hours		
Users from private household boats		
Version 1	120 - 210	40 - 70
Version 2	126.66 - 221.66	42.22 - 73.89
Non users from Georgia's resident population		
Version 1	86.66 - 151.66	28.89 - 50.55
Version 2	100 - 175	33.33 - 58.33
For hire recreational diving operations	30	10
For hire recreational fishing operations	60 - 90	20 - 30
Total	523.32 - 878.32	174.44 - 292.77

1. Annualized by dividing total by three.

13. Provide an estimate of the total annual cost burden to the respondents or record-keepers resulting from the collection (excluding the value of the burden hours in Question 12 above).

There will be no cost to respondents beyond burden hours.

14. Provide estimates of annualized cost to the Federal government.

Table 3. Total Project Cost to the Federal Government (Costs over three years):

Socioeconomics of Commercial Fishers and For-hire Recreational Diving and Fishing Operations in the Gray’s Reef National Marine Sanctuary

Contracts for Data Collectors/Mail samples/Graphic Design.....	\$30,000
NOAA Staff time in developing questionnaires, maps, contracts and tools:	
a. Development and oversight.....	\$42,000
1. ZP-04 Economist 300 hours * \$80/hour.....	\$24,000
2. ZP-04 Economist 300 hours * \$62/hour.....	\$18,600
b. Travel.....	\$24,000
Total Cost to Federal Government.....	\$96,600

Annualized Cost to Federal Government (Total Project Costs to the Federal government divided by three years): \$32,200.

15. Explain the reasons for any program changes or adjustments reported.

This collection was done in 2010 – 2011 and is being reinstated to inform management plan review and future GRNMS condition reports. Changes in some survey questions were adapted to take into account new developments and issues before GRNMS.

16. For collections whose results will be published, outline the plans for tabulation and publication.

All reports will be peer reviewed per the NOAA standard under the Information Quality Act and posted on the ONMS Socioeconomic web site:

<http://sanctuaries.noaa.gov/science/socioeconomic>. A new page(s) will be set up on this web site for the GRNMS.

All data and documentation will be put on CD-ROM and will be made available to the general public, subject to any masking of the data required to protect privacy.

17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons why display would be inappropriate.

NA.

18. Explain each exception to the certification statement.

NA.

SUPPORTING STATEMENT

SOCIOECONOMICS OF USERS AND NON-USERS OF GRAYS REEF NATIONAL MARINE SANCTUARY Reinstatement with Change

OMB CONTROL No. 0648-0625

B. COLLECTIONS OF INFORMATION EMPLOYING STATISTICAL METHODS

1. Describe (including a numerical estimate) the potential respondent universe and any sampling or other respondent selection method to be used. Data on the number of entities (e.g. establishments, State and local governmental units, households, or persons) in the universe and the corresponding sample are to be provided in tabular form. The tabulation must also include expected response rates for the collection as a whole. If the collection has been conducted before, provide the actual response rate achieved.

Users of GRNMS from Private Household Boats

The population was estimated at approximately 500 using satellite imagery and estimates of the number of people per boat. About 500 users have been identified by the Georgia Department of Natural Resources, which randomly boards boats on random days through the year in GRNMS. The boaters are not selected because they are violating any rules or regulations; they are randomly selected. Boat registration number and name & address of the boat owner are obtained. All in the sample list will be surveyed via a mail survey. The current sample list is almost equal in number to the estimated population.

Non-Users of GRNMS

For non-users, the sample frame is the civilian non-institutionalized population of the U.S. living in households that are 16 years old or older. Since we will obtain samples of households, we will randomly select the respondent within the household who will answer the questions using the birthday rule i.e. the person in the household who is 16 years of age or older who last celebrated their birthday.

Our initial thoughts were to stratify the sample based on the distribution of the civilian non-institutionalized population living in households' age 16 years old or older by coastal and non-coastal counties. NOAA has worked with the U.S. Bureau of the Census in developing population by county for coastal and non-coastal counties. However, in our calculations for desired precision and sample size requirements, we determined that we need to over-sample coastal residents (see answer to Question 2 below). In addition, mailing lists are likely to be by zip code, so we will do GIS overlays of zip codes and counties to get distributions between coastal and non-coastal counties and coastal and non-coastal zip codes that come as closely as possible.

The latest Census data by county and/or zip code will be used for the coastal and non-coastal strata. Post sampling weighting will be required to adjust for over-sampling coastal residents. Table 4 shows the estimates of the population of coastal and non-coastal Georgia, expected response rates, and the expected total number of expected completed questionnaires by version of the survey. Table 5 shows the distribution by coastal and non-coastal strata. For each version of the survey, we will split the 500 samples equally between coastal and non coastal residents of Georgia, which means we will over-sample coastal residents of Georgia for purposes of estimation precision (see answer to Question 2 below).

For-hire Recreational Diving Operations

We have identified a population of 10 operations. This was done through previous survey efforts in 2010 conducted by Duke University and Savannah State University. Recent consultations with our GRNMS SAC indicates there have been no changes. We expect to get a 100% response rate or a census. The representative for the dive industry on the GRNMS SAC has assured us that all of their members are highly supportive of the effort and we should expect full cooperation (Table 4).

For the For-hire Recreational Fishing Operations

We have identified a population of between 20 and 30 operations. This population is more fluid and the numbers fluctuate. The current recession may affect this number of operations. We identified these operations through NOAA Fisheries, telephone yellow book, web sites and fishing magazines. Again, we expect to get a 80% to 100% response rate or close to a census (Table 4). The representatives for the recreational fishing industry have assured us that their members are highly supportive of the effort and we should expect full cooperation.

Table 4. Populations, Sample Sizes, and Expected Response Rates

Survey		
1. Users from Private Household Boats		
a. Population	500	
b. Samples		
(1) Version 1	500	
(2) Version 2	500	
c. Expected Response Rates	40 -70 % ¹	
d. Expected Completed Surveys/Version	200 - 350	
2. Non Users of GRNMS		
		Percent
a. Population of Georgia 2008 ²	9,829,211	
(1) Coastal	609,762	6.2
(2) Non Coastal	9,219,449	93.8
b. Samples		
(1) Version 1	500	
(2) Version 2	500	
c. Expected Response Rates	40 - 70 % ¹	
d. Expected Completed Surveys/Version	200 - 350	
3. Recreation For Hire Diving Operations		
a. Population	10	
b. Sample	10	
c. Expected Response Rate	100% ³	
d. Expected Completed Surveys	10	
4. Recreation For Hire Fishing Operations		
a. Population	20 - 30	
b. Sample	20 -30	
c. Expected Response Rate	85 - 100% ⁴	
d. Expected Completed Surveys	17 - 30	

1. Based on experience with mails surveys to similar populations in consultation with the late Robert Ditton of Texas A&M University.
2. There are 11 coastal counties in Georgia based on the State's Coastal Zone Management Plan. See <http://marineeconomics.noaa.gov/socioeconomics/welcome.html>.
3. Based on experiences in the Florida Keys, Channel Islands, and Flower Gardens Bank National Marine Sanctuaries.
4. Based on experiences in the Florida Keys and Channel Islands National marine Sanctuaries.

2. Describe the procedures for the collection, including: the statistical methodology for stratification and sample selection; the estimation procedure; the degree of accuracy needed for the purpose described in the justification; any unusual problems requiring specialized sampling procedures; and any use of periodic (less frequent than annual) data collection cycles to reduce burden.

Users from Private Household Boats

a. Statistical methodology for stratification and sample selection

For those who access GRNMS via private household boat, we have identified 500 users through the Georgia Department of Natural Resources, which randomly boards boats on random days through the year in GRNMS. The boaters are not selected because they were violating any rules or regulations; they are randomly selected. Boat registration number and name & address of the boat owner are obtained. We will use a mail survey following the Dillman Method of sending a full survey, after two weeks those that have not responded will be sent a post card reminder, and after one month, non-respondents will be sent a full package. We will send out surveys to all 500, and expect survey response rates will vary between 40 and 70 percent based on experience with the Dillman Method for a total completion of 200 to 350 completed questionnaires (Table 4).

For calculating required sample size, a hypergeometric distribution was proposed, since population size is small, as is the case for users of GRNMS (Morris, 2004). The equations for the hypergeometric populations are shown below:

$$\text{Hypergeometric} \quad n = N z^2 pq / (E^2 (N-1) + z^2 pq)$$

Where:

- a. N is the population size
- b. n is the required sample size
- c. p and q are population proportions
- d. z is the value of the confidence level needed for the confidence interval used
- e. E is the confidence interval used (or margin or error)

In the case of population sampling based on population proportions, the values for p and q are generally unknown, and thus are set equal to each other (0.5). The z value used is associated with an alpha of 0.05 (or 95% confidence level), which is 1.96. Finally, the E value depends on the confidence interval required (ex., where 5% = 0.05). See Table 5 for the calculations.

The population is considered as a single stratum, and stratifications are only considered at the analysis stage (ex. age, education level, income bracket, etc.).

b. Estimation procedure

Because the population for users of GRNMS is already known, there is no need to estimate the population. Our sample list is very close, if not equal, to the estimated population, so we are sampling the entire population or close to it. We are assuming relatively high response rates

because users of GRNMS are highly committed to the site and want to be represented in management decisions.

c. Degree of accuracy

Because the large sample sizes due to high response rates and sampling rates, we expect a high degree of accuracy of estimated population parameters. The required sample sizes to achieve the desired precision of estimates are presented in Table 5. To obtain the desired precision of estimates at +/- 5 percent requires a sample size of 217. This is slightly more than what would be achieved at the lower bound estimate for a response rate of 40%. The required response rate is slightly higher at 43.4% to achieve the desired precision.

d. Unusual problems and the need to conduct periodic data collection cycles

Because of the burden hours required to obtain all the information desired, two versions of the survey were designed. The data collection for each version will be done over a two-year period (two versions will be implemented to the same sample) periodic data collection cycle issues are applicable to this project.

Non-Users of GRNMS

a. Statistical methodology for stratification and sample selection

For non-users from the general population of Georgia, we originally intended to select a random sample of 500 households in Georgia, stratified by the relative population in coastal and non-coastal counties for each of the two versions of the questionnaire (Table 4). However, the calculations in Table 5 show that to achieve the desired level of precision of estimates for the two strata (coastal and non-coastal), we need to over-sample those who live in coastal counties. So we will split the sample evenly between coastal and non-coastal populations for each version of the survey (N=250 coastal and N=250 non-coastal). With expected response rates, we will achieve the desired precision for each stratum.

A mail survey will be used and all 500 will be sent questionnaires for each of the two samples. Again we will follow the Dillman Method described above and expect response rate to vary between 40 and 70 percent yielding between 200 and 350 completed questionnaires per version.

b. Estimation procedure

The population for non-users of GRNMS is already known since it the total population of Georgia minus the amount of users (N=500). This will be the estimate of the population for extrapolating from sample to population of non-users, non users will include most of the population of Georgia. The probability of sampling a user in our two 500 samples is very low, almost zero for practical application.

c. Degree of accuracy

Table 5 shows the calculations of the sample sizes required for achieving the desired level of precision in estimates. We use the information on Likert scale questions by Sclove (2001) for assumptions about the distributions across the five scale scores for the mean and Sigma. We use the equal proportion assumption (each response is equal to .2 of the distribution) with a mean

equal to 3.0 and Sigma equal to 1.41. To obtain the desired precision of estimates at +/- 5 percent requires a sample size of 13.

We require desired precision for two strata (coastal and non-coastal). Following a simple stratified random sample with N=500 for each version of the survey would only yield a sample size of 12 for coastal and 188 for non-coastal respondents. To ensure sample sizes that will allow for achieving desired precision, we propose to over-sample coastal residents of Georgia and then post weight the sample to the coastal-non coastal distribution. By splitting the samples of 500 evenly between coastal and non-coastal residents of Georgia and assuming a response rate of 40% yields a sample of 100 completed questionnaires for each strata. If response rates go to 70%, then sample sizes increase to 175 per strata. This will also allow for assessments across other groups for certain socioeconomic factors where mean scores might differ.

d. Unusual problems and the need to conduct periodic data collection cycles

We do not expect any unusual problems and both samples for each version of the survey will be implemented in year one, so there are no periodic data collection cycles. One problem with Likert scale questions is that the variance is a function of the mean. Therefore, when testing for differences in means between groups, we will have to adjust the variances. Sclove (2001) recommends an arc sine square root transformation.

For the “for-hire” operations, we expect to get a census or close to a census for both groups. This is based on experiences in the Florida Keys, Channel Islands, and our current effort in the Flower Gardens Bank National Marine Sanctuaries.

Table 5. Required Sample Sizes for Desired Precision of Estimates

Survey

1. Users from Private Household Boats

- a. Desired Precision: +/- 5%
- b. Population: 500 (Note: Sample approximately equal to population)
- c. Population Proportions: $p=.5$ $q=.5$
- d. Value of z for 95% Confidence Interval: $z=1.96$
- e. Margin of Error: $E=0.05$
- f. Required Sample Size ¹: $n=NZ^2pq/E^2(N-1) + Z^2pq$
 $n=217$
- g. Required Response Rate to achieve desired precision: 43.4%

2. Non Users of GRNMS

Using results from Sclove (2001) for Likert Scale, assuming equal proportions to each scale response, results in a mean=3.0 and a Sigma value of 1.41.

- a. Desired Precision: +/- 5% is equal to +/- 0.15
- b. Sigma: 1.41
- c. Required Sample Size for desired precision: $n=Sigma^2/.15 = 13.25$

Two Strata for Sample Selection²:

- (1) Population in Coastal Counties of Georgia (6.2%)
- (2) Population in Non coastal Counties of Georgia (93.8%)

A. Stratified Random Sample: Total Sample Size/Version N=500

- (1) Coastal Sample Size at 40% Response Rate: $n=12$
- (2) Non Coastal Sample Size at 70% Response Rate: $n=188$

B. Over-sample Coastal: Total Sample Size/Version N=500

- (1) Coastal Sample Size at 40% Response Rate: $n=100$
- (2) Non Coastal Sample Size at 40% Response Rate: $n=100$
- (3) Coastal Sample Size at 70% Response Rate: $n=175$
- (4) Non Coastal Sample Size at 70% Response Rate: $n=175$

-
1. See Morris (2004) for sample size determination for small populations.
 2. There are 11 coastal counties in Georgia according to the Coastal Zone Management Plan for Georgia. A NOAA web site has a list of counties that are coastal in Georgia. The U.S. Census Bureau web site was used to get populations for all of Georgia and Georgia's coastal counties for year 2009. See <http://marineeconomics.noaa.gov/socioeconomics/welcome.html> for coastal counties.

3. Describe the methods used to maximize response rates and to deal with nonresponse. The accuracy and reliability of the information collected must be shown to be adequate for the intended uses. For collections based on sampling, a special justification must be provided if they will not yield "reliable" data that can be generalized to the universe studied.

For all our surveys, we will use pre-notification letters to increase response rates.

We have worked closely with the GRNMS Advisory Council in establishing relationships with the for-hire operations that use the GRNMS and have surveyed most of them in the past. User

groups have requested the socioeconomic monitoring efforts in response to recent management strategies (spear fishing prohibition and establishment of a research only area) to monitor the extent of socioeconomic impacts and long-term changes in attitudes and perceptions of GRNMS management strategies and regulations. Therefore, we expect generally very high response rates and do not expect non-response bias.

For users accessing the GRNMS via private household boats and non-users from the general Georgia population, we expect higher non-response. For users it will be difficult to detect non-response bias because we currently do not know the characteristics of the population of users. This will be the second attempt to survey this population, which is relatively small. For non-users, we can compare Census data for Georgia on socioeconomic/demographic characteristics to detect factors related to non-response and whether any of these factors are related to measurements of estimation in the effort. We can also compare some of our general opinion questions against those from Georgia in the "Ocean Project" survey to see if opinions on ocean and coastal resource protection in our sample of Georgia residents are statistically different from that obtained by the "Ocean Project" surveys. However, because the "Ocean Project" uses a 0 to 100 scale with a one number response, according to the research by Christian and Dillman (2004) and in Stern et al (2007) the Likert scale versus the one number response will could have significantly different distributions, thus eliminating the usefulness of this test. If we find non-response, we will develop sample weights to adjust for non-response bias.

For non-users, our approach has four steps. In step 1, we compare our sample to known distributions. For non-users, we would compare our sample with the U.S. Census across multiple demographic factors (e.g. sex, age, race/ethnicity, educational attainment, and household income). We conduct formal statistical tests using the SAS Software, PROC FREQ that supports testing the distributions between sample and Census distributions to identify significant under or over representation.

In step 2, we relate the demographic factors to key parameters in the survey. We conduct Chi-square, non-parametric univariate tests using the Kolmogorov-Smirnov test for the empirical distribution function (edf) and multivariate tests using OLS, probit and logit functions relating response rates to demographic and other key parameters for estimation.

In step 3, if we found statistically significant relationships between demographic factors and key parameters of estimation for which demographic factors were under or over represented, then we construct sample weights. Multivariate weights are constructed when possible, but at minimum multiplicative weights are constructed for all the factors. Multivariate weights are limited due to sample sizes.

In step 4, we compare weighted and unweighted estimates to get a sense of the possible extent of non-response bias.

For non-users, we can compare estimates of marine/saltwater recreational fishing from NOAA Fisheries Marine Recreational Fishing Survey (done annually) and the U.S. Fish and Wildlife Service's Survey of Hunting, Fishing and Wildlife Associated Activities (done every five years). Both surveys attempt to achieve statistically reliable estimates of participation and use for each

State. We can compare weighted and unweighted estimates with these two sources to assess the possible extent of non-response bias and how our weighting adjusts for the bias if it occurs.

In the Florida Keys, recreation-tourism is a dominant part of the economy. In this situation, estimating expenditures allows for consistency checks on selected expenditure items (e.g. lodging and food & drink at restaurants and bars). Our sample weighting was successful in that our weighted estimates were consistent with reported actual expenditures by the Florida Department of Revenue, while the unweighted estimates were not. In this case, we had significant non-response bias, but it was successfully corrected with sample weighting.

We do not have a similar situation for GRNMS since its total use would not account for a large proportion of any local economy. So we could not conduct a step 5 consistency check. What we do know is that our non-response bias plan has worked elsewhere where we could test it and believe it is a valid and useful approach.

For users, we have nothing to compare to in step 1, so our non-response bias analysis will be more limited. No one has ever identified the population of users that use Grays Reef National Marine Sanctuary. Unlike the Florida Keys where we have extensive on-site surveys followed by mailback surveys for additional information, we have no way of knowing the demographic distributions of users before we sample them or the extent of their marine recreation activities compared to the general Georgia population from surveys by NOAA Fisheries in their Marine Recreational Fishing Statistics Survey (done annually) or the U.S. Fish and Wildlife Service's Survey of Hunting, fishing and Wildlife Associated Activities (done every five years).

For the 2010-2011 study, we conducted non-response bias analyses for non-users of GRNMS and found some biases for recreation activity use and information sources used. These biases were adjusted for using multivariate weights (Leeworthy, 2012). We will conduct the same type of analyses with this application.

4. Describe any tests of procedures or methods to be undertaken. Tests are encouraged as effective means to refine collections, but if ten or more test respondents are involved OMB must give prior approval.

All of the questionnaires and methods proposed here have been employed in past information collections and so are well tested. They all have been slightly modified for application to the GRNMS. We have also worked through the GRNMS SAC to make sure that the members of each user group will know why it is important to provide the information and how it will be used, in order to receive a high level of cooperation in providing the information requested.

5. Provide the name and telephone number of individuals consulted on the statistical aspects of the design, and the name of the agency unit, contractor(s), grantee(s), or other person(s) who will actually collect and/or analyze the information for the agency.

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Name of person
Address of person
City, State, zip code

Dear *Person*:

You have been selected to participate in an important survey about coastal & ocean Georgia and Grays Reef National Marine Sanctuary.

In about a weeks' time, you will receive a questionnaire in the U.S. mail.

This survey is intended for **those who have used or visited** Grays Reef National Marine Sanctuary (GRNMS). Managers of GRNMS would like to know how you feel about ocean & coastal resources management off the Georgia coast and in GRNMS. And, more specifically, your uses of these ocean & coastal resources and your opinions about different management strategies and regulations. Results of this survey will be posted on the Office of National Marine Sanctuary web site.

Your specific responses or any personal information about you will not be made public to protect your privacy. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers.

For statistical sampling purposes, we need the **person in the household that is 18 years of age or older and who has used or visited Grays Reef to fill out the questionnaire.**

Your participation in this effort will be extremely appreciated.

Sincerely,

Contractor



Name of person
Address of person
City, State, zip code

Dear *Person*:

You have been selected to participate in an important survey about coastal & ocean Georgia and Grays Reef National Marine Sanctuary.

In about a weeks' time, you will receive a questionnaire in the U.S. mail.

This survey is intended for **those who have used or visited** Grays Reef National Marine Sanctuary (GRNMS). Managers of GRNMS would like to know how you feel about ocean & coastal resources management off the Georgia coast and in GRNMS. And, more specifically, your uses of these ocean & coastal resources and your opinions about different management strategies and regulations. Results of this survey will be posted on the Office of National Marine Sanctuary web site.

Your specific responses or any personal information about you will not be made public to protect your privacy. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers.

For statistical sampling purposes, we need the **person in the household that is 18 years of age or older and who has used or visited Grays Reef to fill out the questionnaire.**

Your participation in this effort will be extremely appreciated.

Sincerely,

Contractor



Last week, a questionnaire seeking your opinions and uses of Gray's Reef National Marine Sanctuary (GRNMS) was mailed to you. You were sent a survey because your name was randomly selected from a list of all users of GRNMS.

If you have already completed and returned the questionnaire to us, please accept our sincere thanks. If not, please do so today. We are especially grateful for your help because your responses will help us in understanding the users of GRNMS.

If you did not receive a questionnaire, or if it was misplaced, please call (TBD) or email to (To be determined) and we will gladly get another one in the mail to you.

Sincerely,
(To be determined), GRNMS Survey Technician

SURVEY FOR COASTAL & OCEAN GEORGIA AND GRAY'S REEF NATIONAL MARINE SANCTUARY

Managers of Gray's Reef National Marine Sanctuary (GRNMS) would like to know how you feel about ocean and coastal resources management off the Georgia coast and in GRNMS. More specifically, GRNMS managers would like to know about your uses of these ocean and coastal resources and your opinions about different management strategies and regulations. This survey is intended for **those who visit or use** Gray's Reef National Marine Sanctuary (GRNMS).

For statistical sampling purposes, we need **a person in the household who is 18 years of age or older to fill out the questionnaire.**

Your participation is voluntary. Any information that identifies you (name, address and telephone number) will be destroyed at the end of the information collection. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers. Results of this survey will be posted on the Office of National Marine Sanctuaries web site.

Should you have any questions, please feel free to contact me.

To be determined
GRNMS Survey Technician
Telephone (To be determined)
e-mail (To be determined)

Public reporting burden for this collection of information is estimated to average about one half hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden, to Dr. Vernon R. (Bob) Leeworthy, Chief Economist, National Ocean Service, Office of National Marine Sanctuaries, 1305 East West Highway, SSMC 4, 11th floor, Silver Spring, MD 20910. (Reference OMB Control Number 0648-0625, Expiration Date: .)

Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid OMB Control Number.



SECTION 1

Attitudes About GRNMS Current Management Strategies and Regulations

In this section, we want to know what you think about the current management strategies and regulations of the GRNMS and how GRNMS management has performed.

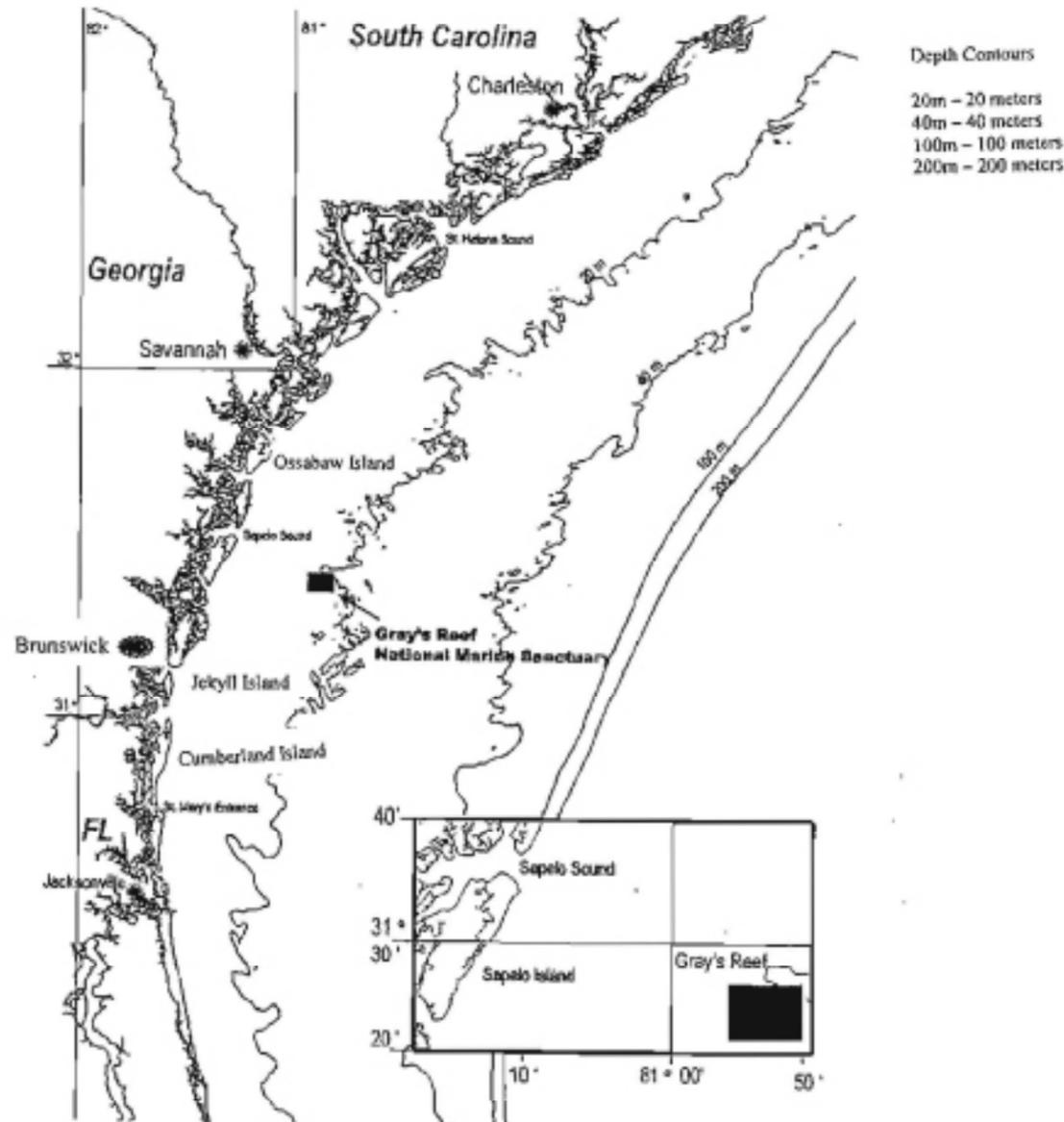
For the next set of questions/statements, please provide your answer to a 1 to 5 scale, where 1 means Strongly agree, 2 means Moderately agree, 3 means Neutral, 4 means Moderately disagree, and 5 means Strongly disagree.

Please circle the appropriate number of each question/statement. If Don't Know, circle DK.

	Strongly Agree	Moderately Agree	Neutral	Moderately Disagree	Strongly Disagree	Don't Know
1. I support the GRNMS as it is currently established	1	2	3	4	5	DK
2. I support the no anchoring regulation	1	2	3	4	5	DK
3. I support the prohibition on disturbing the sea bed including all mining and oil & gas activities	1	2	3	4	5	DK
4. I support the prohibition of commercial fishing use of wire fishing traps	1	2	3	4	5	DK
5. I support the prohibition commercial fishing using bottom trawls	1	2	3	4	5	DK
6. I support the prohibition on the damage or removal of bottom formations	1	2	3	4	5	DK
7. I support the prohibition on the use of explosives	1	2	3	4	5	DK
8. I support the prohibition on the discharge of pollutants in GRNMS waters	1	2	3	4	5	DK
9. I support the prohibition on spear fishing	1	2	3	4	5	DK
10. The process that GRNMS used to develop its rules and regulations was open and fair to all groups	1	2	3	4	5	DK
11. It has mattered whether the average person participated in the workshops and meeting of GRNMS because the average person could influence final decisions	1	2	3	4	5	DK
12. GRNMS has addressed the concerns of other federal and state governments in developing its rules and regulations	1	2	3	4	5	DK
13. GRNMS has not addressed the concerns of individual citizens in developing its rules and regulations	1	2	3	4	5	DK
14. Once that the GRNMS regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations	1	2	3	4	5	DK

Definition. Ocean areas include the Atlantic Ocean and coastal areas include inland bays, estuaries and tidally influenced portions of rivers where fresh and saltwater mix.

Map of Coastal & Ocean Georgia and GRNMS



- Grays Reef National Marine Sanctuary (GRNMS) is located 16 miles offshore of Sapelo Island, Georgia.
- GRNMS is 22-square miles and contains rocky ledges and sandy flats.
- GRNMS is a popular recreational fishing site with some diving.
- No commercial fishing currently takes place in GRNMS, but it is not prohibited.

Please circle the appropriate number of each question/statement. If Don't Know, circle DK.

	Strongly Agree	Moderately Agree	Neutral	Moderately Disagree	Strongly Disagree	Don't Know
15. The procedures that GRNMS has established to deal with violations of its regulations has been fair and just	1	2	3	4	5	DK
16. GRNMS does a good job of enforcing its regulations	1	2	3	4	5	DK
17. GRNMS does a good job of educating the public about its rules and regulations	1	2	3	4	5	DK

SECTION 2

Sources of Information on Ocean & Coastal Resources and GRNMS

In this section, we want to learn what are the best ways GRNMS can communicate with you by understanding the sources of information which you use, and which sources of information you trust.

18. Sources of Information Used (Please check all sources you use).

- a. Gray's Reef National Marine Sanctuary Advisory Council
- b. Gray's Reef National Marine Sanctuary Staff
- c. Gray's Reef National Marine Sanctuary Web site
- d. Gray's Reef National Marine Sanctuary Foundation
- e. NOAA's National Marine Fisheries Service
- f. Atlantic States Marine Fisheries Commission
- g. South Atlantic Fishery Management Council
- h. Georgia Department of Natural Resources
- i. Georgia Sea Grant
- j. Coastal Conservation Association (CCA) of Georgia
- k. Recreational Fishing Alliance (RFA)
- l. American Sportfishing Association (ASA)
- m. National Coalition for Marine Conservation
- n. International Game and Fish Association (IGFA)
- o. Southern Kingfish Association (SKA)
- p. Fishing Magazines/Newsletters
- q. SCUBA diving magazines/Newsletters
- r. Newspapers
- s. Radio
- t. Television
- u. Internet
- v. Gray's Reef National Marine Sanctuary Facebook Page
- w. Gray's Reef National Marine Sanctuary Twitter Feed
- x. Other Social Media (You Tube, Flickr, Instagram, etc.)
- y. Word of Mouth
- z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.) _____

19. For the sources of information you said you used in question 18, on a scale of 1 to 5, where 1 means No Trust at All and 5 means Completely Trust, to what extent do you trust each source of information?

Please circle your answer. If the source was not used, circle NA (Not Applicable).

SOURCES	No Trust at All	Very Little Trust	Neutral	Trust Very Much	Completely Trust	NA
a. Gray's Reef National Marine Sanctuary Advisory Council	1	2	3	4	5	NA
b. Gray's Reef National Marine Sanctuary Staff	1	2	3	4	5	NA
c. Gray's Reef National Marine Sanctuary Web site	1	2	3	4	5	NA
d. Gray's Reef National Marine Sanctuary Foundation	1	2	3	4	5	NA
e. NOAA's National Marine Fisheries Service	1	2	3	4	5	NA
f. Atlantic States Marine Fisheries Commission	1	2	3	4	5	NA
g. South Atlantic Fishery Management Council	1	2	3	4	5	NA
h. Georgia Department of Natural Resources	1	2	3	4	5	NA
i. Georgia Sea Grant	1	2	3	4	5	NA
j. Coastal Conservation Association (CCA) of Georgia	1	2	3	4	5	NA
k. Recreational Fishing Alliance (RFA)	1	2	3	4	5	NA
l. American Sportfishing Association (ASA)	1	2	3	4	5	NA
m. National Coalition for Marine Conservation	1	2	3	4	5	NA
n. International Game and Fish Association (IGFA)	1	2	3	4	5	NA
o. Southern Kingfish Association (SKA)	1	2	3	4	5	NA
p. Fishing Magazines/Newsletters	1	2	3	4	5	NA
q. SCUBA diving magazines/Newsletters	1	2	3	4	5	NA
r. Newspapers	1	2	3	4	5	NA
s. Radio	1	2	3	4	5	NA
t. Television	1	2	3	4	5	NA
u. Internet	1	2	3	4	5	NA
v. Gray's Reef National Marine Sanctuary Facebook Page	1	2	3	4	5	NA
w. Gray's Reef National Marine Sanctuary Twitter Feed	1	2	3	4	5	NA
x. Other Social Media (You Tube, Flickr, Instagram, etc.)	1	2	3	4	5	NA
y. Word of Mouth	1	2	3	4	5	NA
z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.)	1	2	3	4	5	NA

Information From GRNMS

20. How do you like to receive information? **(Please check all that apply).**

- a. Web site
- b. E-mail list serve
- c. Newsletter by delivered by U.S. Post Office
- d. Telephone call from Staff
- e. E-mail from staff
- f. Social media (Twitter, Facebook, You Tube, etc)

21. To the best of your knowledge please name the agency who sets policy/management for each of the following:

Name of Agency

- a. For National Marine Sanctuaries _____
- b. For Ocean areas of Georgia (Federal waters) _____
- c. For Coastal areas in and around Georgia (State waters) _____

22. How would you rank your familiarity with the rules and regulations in place at GRNMS?

(Please check one)

- Very familiar
- Somewhat Familiar
- I am not familiar with any of the rules or regulations

SECTION 3

Status and Conditions of the Resources/Pressures' in GRNMS

In this section, we would like your opinion on the status of the condition of the resources/pressures in GRNMS.

23. On a scale of 1 to 5, where 1 means Getting a lot Better and 5 means Getting a lot Worse, please rate how you think the status/condition of each of the following resources has been changing since implementation of the GRNMS (1981).

Please circle the number corresponding to the status of the condition. If you don't know the status or don't have an opinion, circle DK.

RESOURCES

	1	2	3	4	5	DK
	Getting a Lot Better	Getting Some what Better	Same	Getting Some what Worse	Getting a Lot worse	Don't Know
a. Live bottom habitat	1	2	3	4	5	DK
b. Other bottom habitat	1	2	3	4	5	DK
c. Fish populations (bottom fish)	1	2	3	4	5	DK
d. Fish populations (pelagic)	1	2	3	4	5	DK
e. Fish populations (diversity or number of species)	1	2	3	4	5	DK
f. Other Sea life (abundance)	1	2	3	4	5	DK
g. Other Sea life (diversity or number of species)	1	2	3	4	5	DK
h. Water quality	1	2	3	4	5	DK
i. Invasive species (such as lionfish)	1	2	3	4	5	DK
j. Marine debris (plastics, other trash)	1	2	3	4	5	DK
k. Sea based pollution (discharges from boats)	1	2	3	4	5	DK

PRESSURES

l. Underwater human produced noise from human activities	1	2	3	4	5	DK
m. Ocean Acidification (ph. level harms shellfish and corals)	1	2	3	4	5	DK
n. Climate Change	1	2	3	4	5	DK

SECTION 4

Activities in Ocean & Coastal Areas in and Around Georgia and in the GRNMS

In this section, we want to learn about your recreation activities in the ocean & coastal areas both in the areas in and around Georgia and the portion of those activities in GRNMS.

24. Which activities do you do in ocean & coastal areas both in and around Georgia and inside GRNMS?

Please check all that apply.

ACTIVITY	Georgia	GRNMS
Recreational bottom fishing	<input type="checkbox"/>	<input type="checkbox"/>
Recreational fishing – trolling or drifting in mid or top water	<input type="checkbox"/>	<input type="checkbox"/>
Recreational spear fishing with power heads	<input type="checkbox"/>	<input type="checkbox"/>
Recreational spear fishing without power heads	<input type="checkbox"/>	<input type="checkbox"/>
SCUBA diving (taking things)	<input type="checkbox"/>	<input type="checkbox"/>
SCUBA diving (don't take anything)	<input type="checkbox"/>	<input type="checkbox"/>
Whale watching of other wildlife viewing activities	<input type="checkbox"/>	<input type="checkbox"/>
Sailing	<input type="checkbox"/>	<input type="checkbox"/>

Some Activities that do not take place in GRNMS

	Georgia
Beach Activities	<input type="checkbox"/>
Surfing	<input type="checkbox"/>
Windsurfing or Kite boarding	<input type="checkbox"/>
Personal Watercraft Use (jet skis, wave runners, etc.)	<input type="checkbox"/>
Shorebird Watching	<input type="checkbox"/>
Kayaking	<input type="checkbox"/>
Paddle Boarding	<input type="checkbox"/>

25. For those activities you did in 2010, please provide how many days you did the activity in Georgia and how many of those days were in GRNMS. **(If all your days were in GRNMS, then code all your days in Georgia and GRNMS). Count any part of a day as a whole day.**

ACTIVITY	Days In Georgia	Days in GRNMS
Recreational bottom fishing	_____	_____
Recreational fishing – trolling or drifting in mid or top water	_____	_____
Recreational spear fishing with power heads	_____	_____
Recreational spear fishing without power heads	_____	_____
SCUBA diving (taking things)	_____	_____
SCUBA diving (don't take anything)	_____	_____
Kayaking	_____	XXXX
Paddle Boarding	_____	XXXX

26. For the days you did activities in GRNMS in 2010, please provide the **number of days** by each type of boat access.

- **Private boats would be your boat or a boat owned by family or friend but not for hire.**
- **Charter and party boats are boats that take people out for a fee.**
- **Charter boats usually limit their number of passengers, but charge for the boat for a day.**

ACTIVITY	Days Private Boat	Days Charter Boat
Recreational bottom fishing	_____	_____
Recreational fishing – trolling or drifting in mid or top water	_____	_____
Recreational spear fishing with power heads	_____	_____
Recreational spear fishing without power heads	_____	_____
SCUBA diving (taking things)	_____	_____
SCUBA diving (don't take anything)	_____	_____
Whale watching of other wildlife viewing activities	_____	_____

27. When doing your activities from a **private boat**, how many other people are usually with you on the boat? _____ (number of other people)

28. Do you participate in fishing tournaments in GRNMS?

- Yes
 No
 Don't fish

29. What factors influenced your choice of going to GRNMS to do your activities?

For each factor circle the appropriate answer.

a. Weather	YES	SOMEWHAT	NOT AT ALL
b. Fish species preference	YES	SOMEWHAT	NOT AT ALL
c. Time of Day	YES	SOMEWHAT	NOT AT ALL
d. Seasonal patterns	YES	SOMEWHAT	NOT AT ALL
e. Word of mouth/radio talk	YES	SOMEWHAT	NOT AT ALL
f. Boat Captain's choice	YES	SOMEWHAT	NOT AT ALL
g. Sea conditions	YES	SOMEWHAT	NOT AT ALL
h. Distance to GRNMS	YES	SOMEWHAT	NOT AT ALL
i. Better fishing	YES	SOMEWHAT	NOT AT ALL
j. Better diving for things to see	YES	SOMEWHAT	NOT AT ALL
k. Regulations	YES	SOMEWHAT	NOT AT ALL

SECTION 5

Activity Specialization

In this section, we are interested in learning about your main or primary recreation activity that you participate in ocean & coastal areas off the Georgia coast including activities in GRNMS.

30. Of the list of activities in questions 24 and 25, which one of these is your main or primary activity in the ocean & coastal areas of Georgia, including GRNMS? _____

For the next four questions, please place a check mark next to the answer that best fits you for each question.

31. When I participate in my main or primary activity, I feel like: **(Check one)**
- a beginner. I don't really feel like I am part of the activity scene.
- an occasional or irregular participant. Sometimes it is fun, entertaining or rewarding to do my activity.
- a habitual and regular participant in the activity
- an insider to the sport. The activity is an important part of who I am.
32. During my activity, I can be best described as: **(Check one)**
- having very little understanding of the activity. I am often unsure about how to do certain things when I go.
- having some understanding of the activity, but still in the process of learning more about the sport. I am becoming more familiar and comfortable with the activity.
- being comfortable with the sport. I have a good understanding of what I can do, and how to do it.
- a knowledgeable expert in the sport. I encourage, teach and enhance opportunities for others who are interested in the activity.
33. My relationships with others who do the activity are: **(Check one)**
- not established. I really don't know any other people who do the activity.
- very limited. I know some others in the activity by sight and sometimes talk with them, but I don't know their names.
- one of familiarity. I know the names of others who do the activity, and often speak with them.
- close. I have personal and close relationships with others in the activity. These friendships often revolve around the activity.
34. My commitment to the activity is: **(Check one)**
- very slight. I have very little connection to the activity. I may or may not continue to participate in the sport in the future.
- moderate. I will continue to do it as it is entertaining and provides the benefits I want.
- fairly strong. I have a sense of being a member of the activity, and it is likely that I will continue to do it for a long time.
- very strong. I am totally committed to the activity. I encourage other to participate in the sport and seek to ensure the activity continues in the future.
35. If you had to replace all of the equipment that you currently own for your primary activity with similar equipment, how much would it cost to replace?

\$ _____ AMOUNT TO REPLACE PRIMARY ACTIVITY EQUIPMENT

36. On a scale of 1 to 5, where 1 means No Use and 5 means A Lot of Use, to what extent do you make use of the following for current information about your primary activity?

Please circle the number for your answer.

Information Source Used	No Use	Almost No Use	A Little Use	Moderate Use	A Lot of Use
a. Talking with others who participate in the activity	1	2	3	4	5
b. Magazines	1	2	3	4	5
c. Government agency publications	1	2	3	4	5
d. Conservation organization publications	1	2	3	4	5
e. Newspapers	1	2	3	4	5
f. Diving shops/companies	1	2	3	4	5
g. Club meetings/newsletters	1	2	3	4	5
h. Television	1	2	3	4	5
i. Radio	1	2	3	4	5
j. Internet	1	2	3	4	5
k. Social Media	1	2	3	4	5

37. Below is a list of reasons why people engage in recreation activities. On a scale of 1 to 5, where 1 means Not at All Important and 5 means Extremely Important, how important is each of the reasons for your primary activity?

Please circle the number for your answer.

Reason for engaging in primary activity	Not at All Important	Slightly Important	Moderately Important	Very Important	Extremely Important
a. To be outdoors	1	2	3	4	5
b. For family recreation	1	2	3	4	5
c. To experience new and different things	1	2	3	4	5
d. For relaxation	1	2	3	4	5
e. To be close to the water	1	2	3	4	5
f. To get away from the demands of other people	1	2	3	4	5
g. To be with friends	1	2	3	4	5
h. To develop my skills	1	2	3	4	5
i. To get away from the regular routine	1	2	3	4	5
j. To experience adventure and excitement	1	2	3	4	5
k. To experience natural surroundings	1	2	3	4	5
l. To catch food to eat	1	2	3	4	5

SECTION 6

Information About Yourself

In this last section, we need information about you to help classify and analyze your responses to ensure the scientific validity of this information. Any information that can connect this information with you personally will be protected and not given out to anyone.

38. Male Female

39. Year born _____

40. Are you Hispanic or Latino? Yes No

41. What is your race? **(Check one or more)**

- White
- Black or African American
- American Indian or Alaskan Native
- Asian
- Native Hawaiian or Other Pacific Islander

42. How many people age 18 or older live in your household? _____ (number of people)

43. How many people under age 18 live in your household? _____ (number in household)

44. What type below best describes your household? **(Check one)**

- Single adult with no children 18 or under
- Single adult with children under 18
- Two adults with no children 18 or under
- Two adults with children under 18
- More than two adults with no children under 18
- More than two adults with children 18 or under

45. What is the highest level of education completed? **(Check one)**

- 8th grade or less
- 9th – 12th grade, no diploma
- 12th grade High School Grad or equivalent (GED or alternative credential)
- Some College, 1 or more years, no degree
- Associate's degree (for example: AA, AS)
- Bachelor's degree (for example: BA, BS)
- Master's degree (for example: MA, MS, MEng, Med, MSW, MBA)
- Professional School degree (for example: MD, DDS, DVM, LLB, JD)
- Doctor's degree (for example: PhD, EdD)

46. What is your employment status? **(Check all that apply)**

- unemployed
- employed full time
- employed part time
- retired
- student
- homemaker
- none of the above

47. Which category below best describes you annual household income before taxes in 2010?
(Check one)

- | | |
|---|---|
| <input type="checkbox"/> Less than \$5,000 | <input type="checkbox"/> \$40,000 to \$44,999 |
| <input type="checkbox"/> \$5,000 to \$9,999 | <input type="checkbox"/> \$45,000 to \$49,999 |
| <input type="checkbox"/> \$10,000 to \$14,999 | <input type="checkbox"/> \$50,000 to \$59,999 |
| <input type="checkbox"/> \$15,000 to \$19,999 | <input type="checkbox"/> \$60,000 to \$74,999 |
| <input type="checkbox"/> \$20,000 to \$24,999 | <input type="checkbox"/> \$75,000 to \$99,999 |
| <input type="checkbox"/> \$25,000 to \$29,999 | <input type="checkbox"/> \$100,000 to \$149,999 |
| <input type="checkbox"/> \$30,000 to \$34,999 | <input type="checkbox"/> \$150,000 or more |
| <input type="checkbox"/> \$35,000 to \$39,999 | |

48. Do you own a boat?

- Yes **(Go to Question 49)**
- No **(Skip to Question 50)**

49. What is the length of your boat _____ (feet)

50. Do you have memberships in any groups or clubs? **(Check all that apply)**

- Fishing groups, clubs or organizations
- Diving groups, clubs or organizations
- Environmental groups, clubs or organizations
- Chambers of Commerce
- Other (specify type) _____

That completes the survey. **THANK YOU.** Please put in the return self-addressed envelope and return to us.

SURVEY FOR COASTAL & OCEAN GEORGIA AND GRAY'S REEF NATIONAL MARINE SANCTUARY

Managers of Gray's Reef National Marine Sanctuary (GRNMS) would like to know how you feel about ocean and coastal resources management off the Georgia coast and in GRNMS. More specifically, GRNMS managers would like to know about your uses of these ocean and coastal resources and your opinions about different management strategies and regulations. This survey is intended for **those who visit or use** Gray's Reef National Marine Sanctuary (GRNMS).

For statistical sampling purposes, we need **a person in the household who is 18 years of age or older to fill out the questionnaire.**

Your participation is voluntary. Any information that identifies you (name, address and telephone number) will be destroyed at the end of the information collection. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers. Results of this survey will be posted on the Office of National Marine Sanctuaries web site.

Should you have any questions, please feel free to contact me.

To be determined
GRNMS Survey Technician
Telephone (To be determined)
e-mail (To be determined)

Public reporting burden for this collection of information is estimated to average about one half hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden, to Dr. Vernon R. (Bob) Leeworthy, Chief Economist, National Ocean Service, Office of National Marine Sanctuaries, 1305 East West Highway, SSMC 4, 11th floor, Silver Spring, MD 20910. (Reference OMB Control Number 0648-0625, Expiration Date: .)

Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid OMB Control Number.



SECTION 1

Opinions About Ocean & Coastal Resources Protection and Management

1. On a scale of 1 to 5, where 1 means No Concern at All and 5 means Extremely Concerned, to what extent are you concerned about the health of ocean & coastal areas around Georgia outside the Gray's Reef National Marine Sanctuary (GRNMS)?

Please circle the number for each item.

	No Concern at All	Not Very Concerned	Neutral	Somewhat Concerned	Extremely Concerned
a. Ocean acidification	1	2	3	4	5
b. Climate change	1	2	3	4	5
c. Sea level rise	1	2	3	4	5
d. Over fishing (catching more than can be replaced)	1	2	3	4	5
e. Coral health or other live bottom habitat	1	2	3	4	5
f. Marine animal's health	1	2	3	4	5
g. Shipping (marine transportation)	1	2	3	4	5
h. Dredging/Offshore dredge disposal	1	2	3	4	5
i. Beach renourishment	1	2	3	4	5
j. Energy production (oil & gas)	1	2	3	4	5
k. Alternative Energy production (wind, tidal, wave)	1	2	3	4	5
l. Mining of minerals (including sand)	1	2	3	4	5
m. Habitat loss from coastal development	1	2	3	4	5
n. Pollution (contaminants such as mercury, PCBs, sewage, pesticides)	1	2	3	4	5
o. Human produced noise (from human activities)	1	2	3	4	5

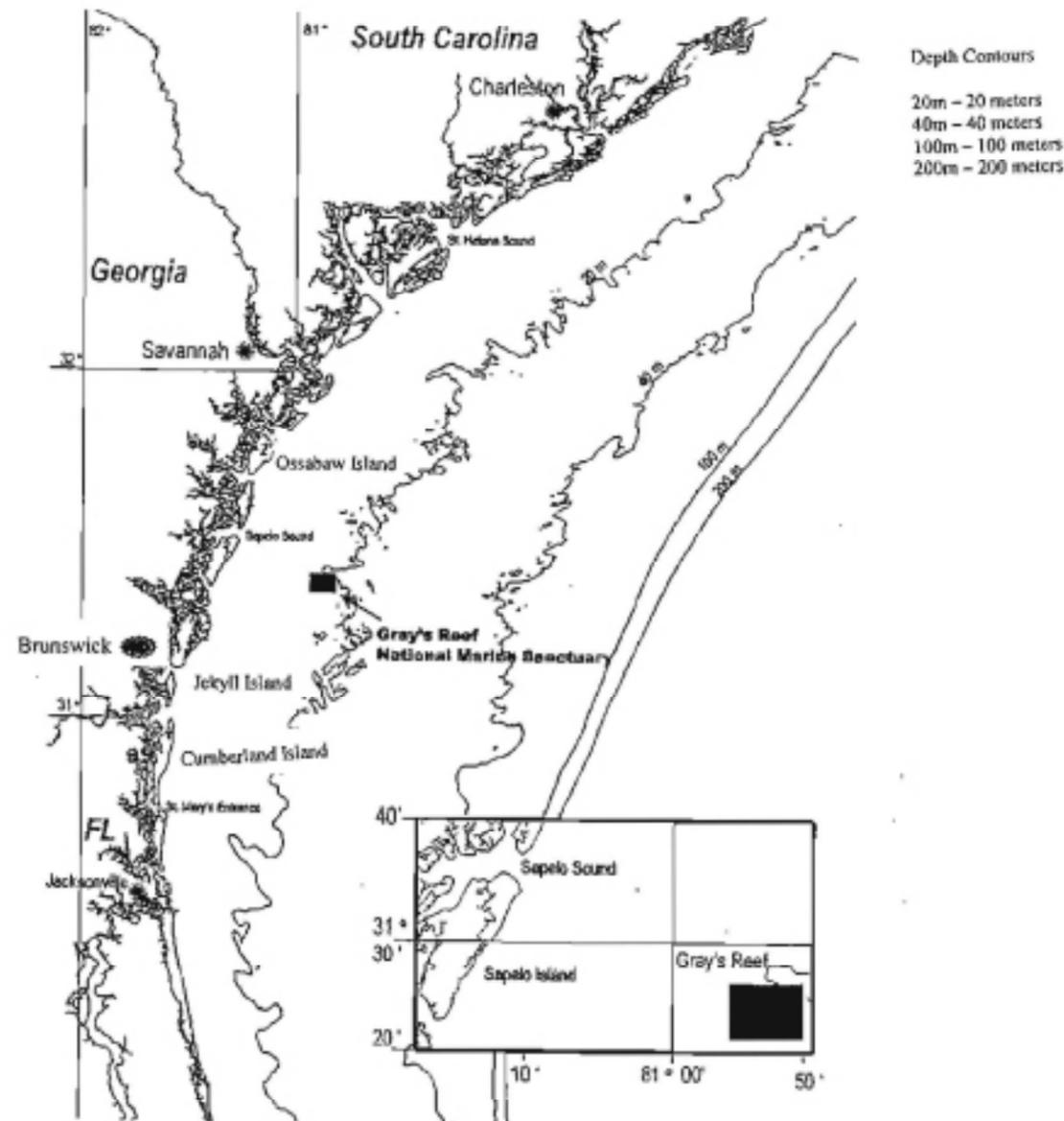
2. On a scale of 1 to 5, where 1 means No Concern at all and 5 means Extremely Concerned, to what extent are you concerned about the health of ocean areas in the Gray's Reef National Marine Sanctuary (GRNMS)?

Please circle the number for each item.

	No Concern at All	Not Very Concerned	Neutral	Somewhat Concerned	Extremely Concerned
a. Ocean acidification	1	2	3	4	5
b. Climate change	1	2	3	4	5
c. Sea level rise	1	2	3	4	5
d. Over fishing (catching more than can be replaced)	1	2	3	4	5
e. Coral health or other live bottom habitat	1	2	3	4	5
f. Marine animal's health	1	2	3	4	5
g. Shipping (marine transportation)	1	2	3	4	5

Definition. Ocean areas include the Atlantic Ocean and coastal areas include inland bays, estuaries and tidally influenced portions of rivers where fresh and saltwater mix.

Map of Coastal & Ocean Georgia and GRNMS



- Grays Reef National Marine Sanctuary (GRNMS) is located 16 miles offshore of Sapelo Island, Georgia.
- GRNMS is 22-square miles and contains rocky ledges and sandy flats.
- GRNMS is a popular recreational fishing site with some diving.
- No commercial fishing currently takes place in GRNMS, but it is not prohibited.

Please circle the number for each item.

	No Concern at All	Not Very Concerned	Neutral	Somewhat Concerned	Extremely Concerned
h. Dredging/Offshore dredge disposal	1	2	3	4	5
i. Beach renourishment	1	2	3	4	5
j. Energy production (oil & gas)	1	2	3	4	5
k. Alternative Energy production (wind, tidal, wave)	1	2	3	4	5
l. Mining of minerals (including sand)	1	2	3	4	5
m. Habitat loss from coastal development	1	2	3	4	5
n. Pollution (contaminants such as mercury, PCBs, sewage, pesticides)	1	2	3	4	5
o. Human produced noise (from human activities)	1	2	3	4	5

3. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support the protection of ocean & coastal resources in and around Georgia outside GRNMS?

Please circle the number for your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Protection in Georgia <u>outside</u> GRNMS	1	2	3	4	5

4. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support the protection of ocean resources inside GRNMS?

Please circle the number for your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Protection <u>inside</u> GRNMS	1	2	3	4	5

- Sometimes an area's use grows to the extent that it cannot accommodate all uses without conflict among users.
- Marine zoning is often used to resolve conflicts by separating uses in different zones, very similar to what is done on land.

5. Do you support the use of marine zoning in ocean & coastal areas off the coast of Georgia? (Check one)

Yes (go to question 6) No (skip to question 12 on page 5)

Some Facts for Questions 6 through 8

- Marine reserves are a specific kind of marine zoning in which nothing is allowed to be taken (removed).
 - All activities that take or remove natural resources are prohibited, so fishing would be prohibited inside these types of zones.
 - All other activities that do not involve taking things are allowed.
 - This management strategy is often used to resolve conflicts between those taking things and those who don't take things (fishing versus diving).
 - Size of the areas is important since generally the larger the area the more users that will be affected.
 - This prohibition on taking activities may lead to social and economic impacts.
6. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support protection of resources in ocean and coastal waters in and around Georgia outside GRNMS with the use of marine reserves?

Please circle the number for your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Marine Reserves in Georgia <u>outside</u> GRNMS	1	2	3	4	5

7. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support protection of resources in ocean and coastal waters inside GRNMS with the use of marine reserves?

Please circle the number for your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Marine Reserves <u>inside</u> GRNMS	1	2	3	4	5

8. What is the maximum amount of impact on the percent of each activity that you would find acceptable for each type of Activity, if marine reserves were used?

ACTIVITY	Percent (0 to 100)
a. Recreational bottom fishing	_____
b. Recreational fishing – trolling or drifting in mid or top water	_____
c. Recreational spear fishing with power heads	_____
d. Recreational spear fishing without power heads	_____
e. Commercial bottom fishing	_____
f. Commercial fishing – trolling or drifting in mid or top water	_____
g. Commercial spear fishing with power heads	_____
h. Commercial spear fishing without power heads	_____
i. SCUBA diving (taking things)	_____

Some Facts for Questions 9 through 11

- **Research Only Areas** are a specific type of marine zoning where the only activity allowed is scientific research or education.
- The scientific research is used to test the impacts of various uses on natural and cultural resources.
- **Size of the areas is important** since generally the larger the area the more users that will be impacted.
- This may lead to social and economic impacts
- **GRNMS created a Research Only Area on Dec. 4, 2011, which is a 22-square mile area in the southern third of GRNMS.**

9. On a scale of 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support protection of ocean & coastal resources in and around Georgia outside GRNMS with the use of "Research Only Areas"?

Please circle your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Research Only Areas in Georgia <u>outside</u> GRNMS	1	2	3	4	5

10. On a scale of 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support protection of ocean & coastal resources inside GRNMS for the Research Only Area created in 2011?

Please circle your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Research Only Area <u>inside</u> GRNMS	1	2	3	4	5

11. For the current Research Only Area in GRNMS, what is the maximum amount of impact (the amount of activity displaced from GRNMS) you would find acceptable for each type of activity? Please provide the maximum percent of impact for each activity..

ACTIVITY	Percent (0 to 100)
a. Recreational bottom fishing	_____
b. Recreational fishing – trolling or drifting in mid or top water	_____
c. Recreational spear fishing with power heads	_____
d. Recreational spear fishing without power heads	_____
e. Commercial bottom fishing	_____
f. Commercial fishing – trolling or drifting in mid or top water	_____
g. Commercial spear fishing with power heads	_____
h. Commercial spear fishing without power heads	_____
i. SCUBA diving (taking things)	_____
j. SCUBA diving (don't take anything)	_____
k. Whale watching of other wildlife viewing activities	_____

Some Facts for Question 12

- **Historically fishery managers or managers of marine mammals have managed on a species by species basis.**
- **Recent trends are to expand this species specific approach to what is being called multiple species management.**
- **In fisheries management, the approach involves looking at the various inter-relationships between species such as predator-prey relationship (big fish eat little fish).**

12. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support moving from species specific fishery management to an multiple species approach that looks at all species and their inter-relationships?

Please circle your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Change to <u>multiple species</u> management	1	2	3	4	5

Some Facts for Question 13

- **Another more comprehensive approach goes beyond fishery management.**
- **In a full ecosystem-based approach, all human uses and values are recognized.**
- **Management attempts to achieve a balance across many different uses and values.**

13. On a scale from 1 to 5, where 1 means No Support at All and 5 means Strongly Support, to what extent do you support moving from species specific or multiple species management to full ecosystem-based management?

Please circle your answer.

	No Support at All	Somewhat Against	Neutral	Somewhat Support	Strongly Support
Change to full <u>ecosystem-based management</u>	1	2	3	4	5

SECTION 2

Sources of Information on Ocean & Coastal Resources and GRNMS

In this section, we want to learn what are the best ways GRNMS can communicate with you by understanding the sources of information which you use, and which sources of information you trust.

14. Sources of Information Used (**Please check all sources you use**).

- a. Gray's Reef National Marine Sanctuary Advisory Council
- b. Gray's Reef National Marine Sanctuary Staff
- c. Gray's Reef National Marine Sanctuary Web site
- d. Gray's Reef National Marine Sanctuary Foundation
- e. NOAA's National Marine Fisheries Service
- f. Atlantic States Marine Fisheries Commission
- g. South Atlantic Fishery Management Council
- h. Georgia Department of Natural Resources
- i. Georgia Sea Grant
- j. Coastal Conservation Association (CCA) of Georgia
- k. Recreational Fishing Alliance (RFA)
- l. American Sportfishing Association (ASA)
- m. National Coalition for Marine Conservation
- n. International Game and Fish Association (IGFA)
- o. Southern Kingfish Association (SKA)
- p. Fishing Magazines/Newsletters
- q. SCUBA diving magazines/Newsletters
- r. Newspapers
- s. Radio
- t. Television
- u. Internet
- v. Gray's Reef National Marine Sanctuary Facebook Page
- w. Gray's Reef National Marine Sanctuary Twitter Feed
- x. Other Social Media (You Tube, Flickr, Instagram, etc.)
- y. Word of Mouth
- z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.)

15. For the sources of information you said you used in question 14, on a scale of 1 to 5, where 1 means No Trust at All and 5 means Completely Trust, to what extent do you trust each source of information?

Please circle your answer.

If the source was not used, circle NA (Not Applicable).

SOURCES

	No Trust at All	Very Little Trust	Neutral	Trust Very Much	Completely Trust	NA
a. Gray's Reef National Marine Sanctuary Advisory Council	1	2	3	4	5	NA
b. Gray's Reef National Marine Sanctuary Staff	1	2	3	4	5	NA
c. Gray's Reef National Marine Sanctuary Web site	1	2	3	4	5	NA
d. Gray's Reef National Marine Sanctuary Foundation	1	2	3	4	5	NA
e. NOAA's National Marine Fisheries Service	1	2	3	4	5	NA
f. Atlantic States Marine Fisheries Commission	1	2	3	4	5	NA
g. South Atlantic Fishery Management Council	1	2	3	4	5	NA
h. Georgia Department of Natural Resources	1	2	3	4	5	NA
i. Georgia Sea Grant	1	2	3	4	5	NA
j. Coastal Conservation Association (CCA) of Georgia	1	2	3	4	5	NA
k. Recreational Fishing Alliance (RFA)	1	2	3	4	5	NA
l. American Sportfishing Association (ASA)	1	2	3	4	5	NA
m. National Coalition for Marine Conservation	1	2	3	4	5	NA
n. International Game and Fish Association (IGFA)	1	2	3	4	5	NA
o. Southern Kingfish Association (SKA)	1	2	3	4	5	NA
p. Fishing Magazines/Newsletters	1	2	3	4	5	NA
q. SCUBA diving magazines/Newsletters	1	2	3	4	5	NA
r. Newspapers	1	2	3	4	5	NA
s. Radio	1	2	3	4	5	NA
t. Television	1	2	3	4	5	NA
u. Internet	1	2	3	4	5	NA
v. Gray's Reef National Marine Sanctuary Facebook Page	1	2	3	4	5	NA
w. Gray's Reef National Marine Sanctuary Twitter Feed	1	2	3	4	5	NA
x. Other Social Media (You Tube, Flickr, Instagram, etc.)	1	2	3	4	5	NA
y. Word of Mouth	1	2	3	4	5	NA
z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.)						
	1	2	3	4	5	NA

Information From GRNMS

16. How do you like to receive information? **(Please check all that apply).**

- a. Web site
- b. E-mail list serve
- c. Newsletter by delivered by U.S. Post Office
- d. Telephone call from Staff
- e. E-mail from staff
- f. Social media (Twitter, Facebook, You Tube, etc).

17. To the best of your knowledge please name the agency who sets policy/management for each of the following:

- | | Name of Agency |
|---|----------------|
| a. For National Marine Sanctuaries | _____ |
| b. For Ocean areas of Georgia (Federal waters) | _____ |
| c. For Coastal areas in and around Georgia (State waters) | _____ |

18. How would you rank your familiarity with the rules and regulations in place at GRNMS? **(Please check one)**

- Very familiar
- Somewhat Familiar
- I am not familiar with any of the rules or regulations

**SECTION 3
Status and Conditions of the Resources/Pressures' in GRNMS**

In this section, we would like your opinion on the status of the condition of the resources/pressures' in GRNMS.

19. On a scale of 1 to 5, where 1 means Getting a lot Better and 5 means Getting a lot Worse, please rate how you think the status/condition of each of the following resources has been changing since implementation of the GRNMS (1981).

Please circle the number corresponding to the status of the condition. If you don't know the status or don't have an opinion, circle DK.

		Getting a Lot Better	Getting Some what Better	Same	Getting Some what Worse	Getting a Lot worse	Don't Know
RESOURCES							
a. Live bottom habitat	1	2	3	4	5	DK	
b. Other bottom habitat	1	2	3	4	5	DK	
c. Fish populations (bottom fish)	1	2	3	4	5	DK	
d. Fish populations (pelagic)	1	2	3	4	5	DK	
e. Fish populations (diversity or number of species)	1	2	3	4	5	DK	
f. Other Sea life (abundance)	1	2	3	4	5	DK	
g. Other Sea life (diversity or number of species)	1	2	3	4	5	DK	
h. Water quality	1	2	3	4	5	DK	
i. Invasive species (such as lionfish)	1	2	3	4	5	DK	
j. Marine debris (plastics, other trash)	1	2	3	4	5	DK	
k. Sea based pollution (discharges from boats)	1	2	3	4	5	DK	
PRESSURES							
l. Underwater human produced noise from human activities	1	2	3	4	5	DK	
m. Ocean Acidification (ph. level harms shellfish and corals)	1	2	3	4	5	DK	
n. Climate Change	1	2	3	4	5	DK	

SECTION 4

Activities in Ocean & Coastal Areas in and Around Georgia and in the GRNMS

In this section, we want to learn about your recreation activities in the ocean & coastal areas both in the areas in and around Georgia and the portion of those activities in GRNMS.

20. Which activities do you do in ocean & coastal areas both in and around Georgia and inside GRNMS?

Please check all that apply.

ACTIVITY	Georgia	GRNMS
Recreational bottom fishing	<input type="checkbox"/>	<input type="checkbox"/>
Recreational fishing – trolling or drifting in mid or top water	<input type="checkbox"/>	<input type="checkbox"/>
Recreational spear fishing with power heads	<input type="checkbox"/>	<input type="checkbox"/>
Recreational spear fishing without power heads	<input type="checkbox"/>	<input type="checkbox"/>
SCUBA diving (taking things)	<input type="checkbox"/>	<input type="checkbox"/>
SCUBA diving (don't take anything)	<input type="checkbox"/>	<input type="checkbox"/>
Whale watching of other wildlife viewing activities	<input type="checkbox"/>	<input type="checkbox"/>
Sailing	<input type="checkbox"/>	<input type="checkbox"/>

Some Activities that do not take place in GRNMS

	Georgia
Beach Activities	<input type="checkbox"/>
Surfing	<input type="checkbox"/>
Windsurfing or Kite boarding	<input type="checkbox"/>
Personal Watercraft Use (jet skis, wave runners, etc.)	<input type="checkbox"/>
Shorebird Watching	<input type="checkbox"/>
Kayaking	<input type="checkbox"/>
Paddle Boarding	<input type="checkbox"/>

21. For those activities you did in 2010, please provide how many days you did the activity in Georgia and how many of those days were in GRNMS. (If all your days were in GRNMS, then code all your days in Georgia and GRNMS). Count any part of a day as a whole day.

ACTIVITY	Days In Georgia	Days in GRNMS
Recreational bottom fishing	_____	_____
Recreational fishing – trolling or drifting in mid or top water	_____	_____
Recreational spear fishing with power heads	_____	_____
Recreational spear fishing without power heads	_____	_____
SCUBA diving (taking things)	_____	_____
SCUBA diving (don't take anything)	_____	_____
Whale watching of other wildlife viewing activities	_____	_____
Kayaking	_____	XXXX
Paddle Boarding	_____	XXXX

22. For the days you did activities in GRNMS in 2010, please provide the number of days by each type of boat access.

- Private boats would be your boat or a boat owned by family or friend but not for hire.
- Charter and party boats are boats that take people out for a fee.
- Charter boats usually limit their number of passengers, but charge for the boat for a day.

ACTIVITY	Days Private Boat	Days Charter Boat
Recreational bottom fishing	_____	_____
Recreational fishing – trolling or drifting in mid or top water	_____	_____
Recreational spear fishing with power heads	_____	_____
Recreational spear fishing without power heads	_____	_____
SCUBA diving (taking things)	_____	_____
SCUBA diving (don't take anything)	_____	_____
Whale watching of other wildlife viewing activities	_____	_____

23. When doing your activities from a private boat, how many other people are usually with you on the boat? _____ (number of other people)

24. Do you participate in fishing tournaments in GRNMS?

- Yes
 No
 Don't fish

25. What factors influenced your choice of going to GRNMS to do your activities?

For each factor circle the appropriate answer.

	YES	SOMEWHAT	NOT AT ALL
a. Weather			
b. Fish species preference			
c. Time of Day			
d. Seasonal patterns			
e. Word of mouth/radio talk			
f. Boat Captain's choice			
g. Sea conditions			
h. Distance to GRNMS			
i. Better fishing			
j. Better diving for things to see			

SECTION 5

Activity Specialization

In this section, we are interested in learning about your main or primary recreation activity that you participate in ocean & coastal areas off the Georgia coast including activities in GRNMS.

26. Of the list of activities in questions 20 and 21, which one of these is your main or primary activity in the ocean & coastal areas of Georgia, including GRNMS? _____

For the next four questions, please place a check mark next to the answer that best fits you for each question.

27. When I participate in my main or primary activity, I feel like: **(Check one)**
- a beginner. I don't really feel like I am part of the activity scene.
 - an occasional or irregular participant. Sometimes it is fun, entertaining or rewarding to do my activity.
 - a habitual and regular participant in the activity
 - an insider to the sport. The activity is an important part of who I am.
28. During my activity, I can be best described as: **(Check one)**
- having very little understanding of the activity. I am often unsure about how to do certain things when I go.
 - having some understanding of the activity, but still in the process of learning more about the sport.
 - I am becoming more familiar and comfortable with the activity.
 - being comfortable with the sport. I have a good understanding of what I can do, and how to do it. a knowledgeable expert in the sport. I encourage, teach and enhance opportunities for others who are interested in the activity.
29. My relationships with others who do the activity are: **(Check one)**
- not established. I really don't know any other people who do the activity.
 - very limited. I know some others in the activity by sight and sometimes talk with them, but I don't know their names.
 - one of familiarity. I know the names of others who do the activity, and often speak with them.
 - close. I have personal and close relationships with others in the activity. These friendships often revolve around the activity.
30. My commitment to the activity is: **(Check one)**
- very slight. I have very little connection to the activity. I may or may not continue to participate in the sport in the future.
 - moderate. I will continue to do it as it is entertaining and provides the benefits I want.
 - fairly strong. I have a sense of being a member of the activity, and it is likely that I will continue to do it for a long time.
 - very strong. I am totally committed to the activity. I encourage other to participate in the sport and seek to ensure the activity continues in the future.
31. If you had to replace all of the equipment that you currently own for your primary activity with similar equipment, how much would it cost to replace?

\$ _____ AMOUNT TO REPLACE PRIMARY ACTIVITY EQUIPMENT

32. On a scale of 1 to 5, where 1 means No Use and 5 means A Lot of Use, to what extent do you make use of the following for current information about your primary activity?

Please circle the number for your answer.

Information Source Used	No Use	Almost No Use	A Little Use	Moderate Use	A Lot of Use
a. Talking with others who participate in the activity	1	2	3	4	5
b. Magazines	1	2	3	4	5
c. Government agency publications	1	2	3	4	5
d. Conservation organization publications	1	2	3	4	5
e. Newspapers	1	2	3	4	5
f. Diving shops/companies	1	2	3	4	5
g. Club meetings/newsletters	1	2	3	4	5
h. Television	1	2	3	4	5
i. Radio	1	2	3	4	5
j. Internet	1	2	3	4	5
k. Social Media	1	2	3	4	5

33. Below is a list of reasons why people engage in recreation activities. On a scale of 1 to 5, where 1 means Not at All Important and 5 means Extremely Important, how important is each of the reasons for your primary activity?

Please circle the number for your answer.

Reason for engaging in primary activity	Not at All Important	Slightly Important	Moderately Important	Very Important	Extremely Important
a. To be outdoors	1	2	3	4	5
b. For family recreation	1	2	3	4	5
c. To experience new and different things	1	2	3	4	5
d. For relaxation	1	2	3	4	5
e. To be close to the water	1	2	3	4	5
f. To get away from the demands of other people	1	2	3	4	5
g. To be with friends	1	2	3	4	5
h. To develop my skills	1	2	3	4	5
i. To get away from the regular routine	1	2	3	4	5
j. To experience adventure and excitement	1	2	3	4	5
k. To experience natural surroundings	1	2	3	4	5
l. To catch food to eat	1	2	3	4	5

SECTION 6

Ways You Value Ocean & Coastal Resources/Marine Environment

In this section, we want to learn about the ways you value the many products and services that are derived from ocean & coastal resources and the things you would do to help ensure their sustainability for the future.

34. Below is a list of goods or services that people get from ocean & coastal resources. On a scale of 1 to 5, where 1 means **No Value** and 5 means **Extremely High Value**, to what extent do you value each good or service?

Please circle the number for your answer.

GOOD OR SERVICE

	No Value	Low Value	Medium Value	High Value	Extremely High Value
a. Support for recreation activities	1	2	3	4	5
b. Seafood purchased at <u>local</u> stores and restaurants	1	2	3	4	5
c. Seafood purchased at <u>non local</u> stores and restaurants	1	2	3	4	5
d. Support for Scientific Research	1	2	3	4	5
e. Support for education	1	2	3	4	5
f. Supply of mineral resources through mining	1	2	3	4	5
g. Supply of oil & gas	1	2	3	4	5
h. Supply of alternative energy (wind, wave, tidal)	1	2	3	4	5
i. Supply of pharmaceutical products through mining or harvest of resources	1	2	3	4	5
j. Protection of resources even though I never intend to visit or directly use them	1	2	3	4	5

35. On a scale of 1 to 5, where 1 means Would Not Do and 5 means Would Do the Maximum, to what extent would you undertake the activities or actions to ensure that ocean & coastal resources are used sustainability an available for future generations to enjoy?

Please circle the number for your answer.

ACTIVITY OR ACTION

	Would Not Do	Would Do Very Little	Would do Some	Would Do A Lot	Would do the Maximum
a. Volunteer time	1	2	3	4	5
b. Pay higher taxes for resource protection and restoration	1	2	3	4	5
c. Pay higher prices for goods and services due to costs to businesses in complying with regulations that protect ocean & coastal resources or require restoration of areas damaged	1	2	3	4	5
d. Pay user fees like fishing licenses or diving access fees or additional boat registration fees	1	2	3	4	5
e. Donate to groups representing recreational fishing interests	1	2	3	4	5
f. Donate to groups representing diving interests	1	2	3	4	5
g. Recycle	1	2	3	4	5
h. Use less energy	1	2	3	4	5
i. Avoid/boycott certain seafood products	1	2	3	4	5
j. Other (please specify)	1	2	3	4	5

SECTION 7

Information About Yourself

In this last section, we need information about you to help classify and analyze your responses to ensure the scientific validity of this information. Any information that can connect this information with you personally will be protected and not given out to anyone.

36. Male Female

37. Year born _____

38. Are you Hispanic or Latino? Yes No

39. What is your race? (Check one or more)

- White
 Black or African American
 American Indian or Alaskan Native
 Asian
 Native Hawaiian or Other Pacific Islander

40. How many people age 18 or older live in your household? _____ (number of people)

41. How many people under age 18 live in your household? _____ (number in household)

42. What type below best describes your household? **(Check one)**

- Single adult with no children 18 or under
- Single adult with children under 18
- Two adults with no children 18 or under
- Two adults with children under 18
- More than two adults with no children under 18
- More than two adults with children 18 or under

43. What is the highest level of education completed? **(Check one)**

- 8th grade or less
- 9th – 12th grade, no diploma
- 12th grade High School Grad or equivalent (GED or alternative credential)
- Some College, 1 or more years, no degree
- Associate's degree (for example: AA, AS)
- Bachelor's degree (for example: BA, BS)
- Master's degree (for example: MA, MS, MEng, Med, MSW, MBA)
- Professional School degree (for example: MD, DDS, DVM, LLB, JD)
- Doctor's degree (for example: PhD, EdD)

44. What is your employment status? **(Check all that apply)**

- unemployed
- employed full time
- employed part time
- retired
- student
- homemaker
- none of the above

45. Which category below best describes your annual household income before taxes in 2010?

(Check one)

- | | |
|---|---|
| <input type="checkbox"/> Less than \$5,000 | <input type="checkbox"/> \$40,000 to \$44,999 |
| <input type="checkbox"/> \$5,000 to \$9,999 | <input type="checkbox"/> \$45,000 to \$49,999 |
| <input type="checkbox"/> \$10,000 to \$14,999 | <input type="checkbox"/> \$50,000 to \$59,999 |
| <input type="checkbox"/> \$15,000 to \$19,999 | <input type="checkbox"/> \$60,000 to \$74,999 |
| <input type="checkbox"/> \$20,000 to \$24,999 | <input type="checkbox"/> \$75,000 to \$99,999 |
| <input type="checkbox"/> \$25,000 to \$29,999 | <input type="checkbox"/> \$100,000 to \$149,999 |
| <input type="checkbox"/> \$30,000 to \$34,999 | <input type="checkbox"/> \$150,000 or more |
| <input type="checkbox"/> \$35,000 to \$39,999 | |

46. Do you own a boat?

- Yes **(Go to Question 47)**
- No **(Skip to Question 48)**

47. What is the length of your boat _____ (feet)

48. Do you have memberships in any groups or clubs? **(Check all that apply)**

- Fishing groups, clubs or organizations
- Diving groups, clubs or organizations
- Environmental groups, clubs or organizations
- Chambers of Commerce
- Other (specify type) _____
- _____
- _____

That completes the survey. **THANK YOU.** Please put in the return self-addressed envelope and return to us.

Name of person
Address of person
City, State, zip code

Dear *Person*:

You have been selected to participate in an important survey about coastal & ocean Georgia and Grays Reef National Marine Sanctuary.

In about a weeks' time, you will receive a questionnaire in the U.S. mail.

This survey is intended for **those who do not use or visit** Grays Reef National Marine Sanctuary (GRNMS). Managers of GRNMS would like to know how you feel about ocean & coastal resources management off the Georgia coast and in GRNMS. And, more specifically, your uses of these ocean & coastal resources and your opinions about different management strategies and regulations. Results of this survey will be posted on the Office of National Marine Sanctuary web site.

Your specific responses or any personal information about you will not be made public to protect your privacy. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers.

For statistical sampling purposes, we need the **person in the household that is 18 years of age or older and who last celebrated their birthday to fill out the questionnaire.**

Your participation in this effort will be extremely appreciated.

Sincerely,

Contractor



Last week, a questionnaire seeking your use of Georgia's coastal & ocean areas and your opinions of Gray's Reef National Marine Sanctuary (GRNMS) was mailed to you. You were sent a survey because your name was randomly selected from a list of all residents of Georgia.

If you have already completed and returned the questionnaire to us, please accept our sincere thanks. If not, please do so today. We are especially grateful for your help because your responses will help us in understanding your uses of coastal & ocean areas in Georgia and opinions of GRNMS.

If you did not receive a questionnaire, or if it was misplaced, please call (TBD) or email to (to be determined) and we will gladly get another one in the mail to you.

Sincerely,
To be determined, GRNMS Survey Technician

SURVEY FOR COASTAL & OCEAN GEORGIA AND GRAY'S REEF NATIONAL MARINE SANCTUARY

Managers of Gray's Reef National Marine Sanctuary (GRNMS) would like to know how you feel about ocean and coastal resources management off the Georgia coast and in GRNMS. More specifically, GRNMS managers would like to know about your uses of these ocean and coastal resources and your opinions about different management strategies and regulations. This survey is intended for **those who visit or use** Gray's Reef National Marine Sanctuary (GRNMS).

For statistical sampling purposes, we need a **person in the household who is 18 years of age or older to fill out the questionnaire.**

Your participation is voluntary. Any information that identifies you (name, address and telephone number) will be destroyed at the end of the information collection. Only statistical summaries of information across all survey respondents will be released publicly or made available to GRNMS managers. Results of this survey will be posted on the Office of National Marine Sanctuaries web site.

Should you have any questions, please feel free to contact me.

To be determined
GRNMS Survey Technician
Telephone (To be determined)
e-mail (To be determined)

Public reporting burden for this collection of information is estimated to average about one half hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden, to Dr. Vernon R. (Bob) Leeworthy, Chief Economist, National Ocean Service, Office of National Marine Sanctuaries, 1305 East West Highway, SSMC 4, 11th floor, Silver Spring, MD 20910. (Reference OMB Control Number 0648-0625, Expiration Date: .)

Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid OMB Control Number.



SECTION 1

Attitudes About GRNMS Current Management Strategies and Regulations

In this section, we want to know what you think about the current management strategies and regulations of the GRNMS and how GRNMS management has performed.

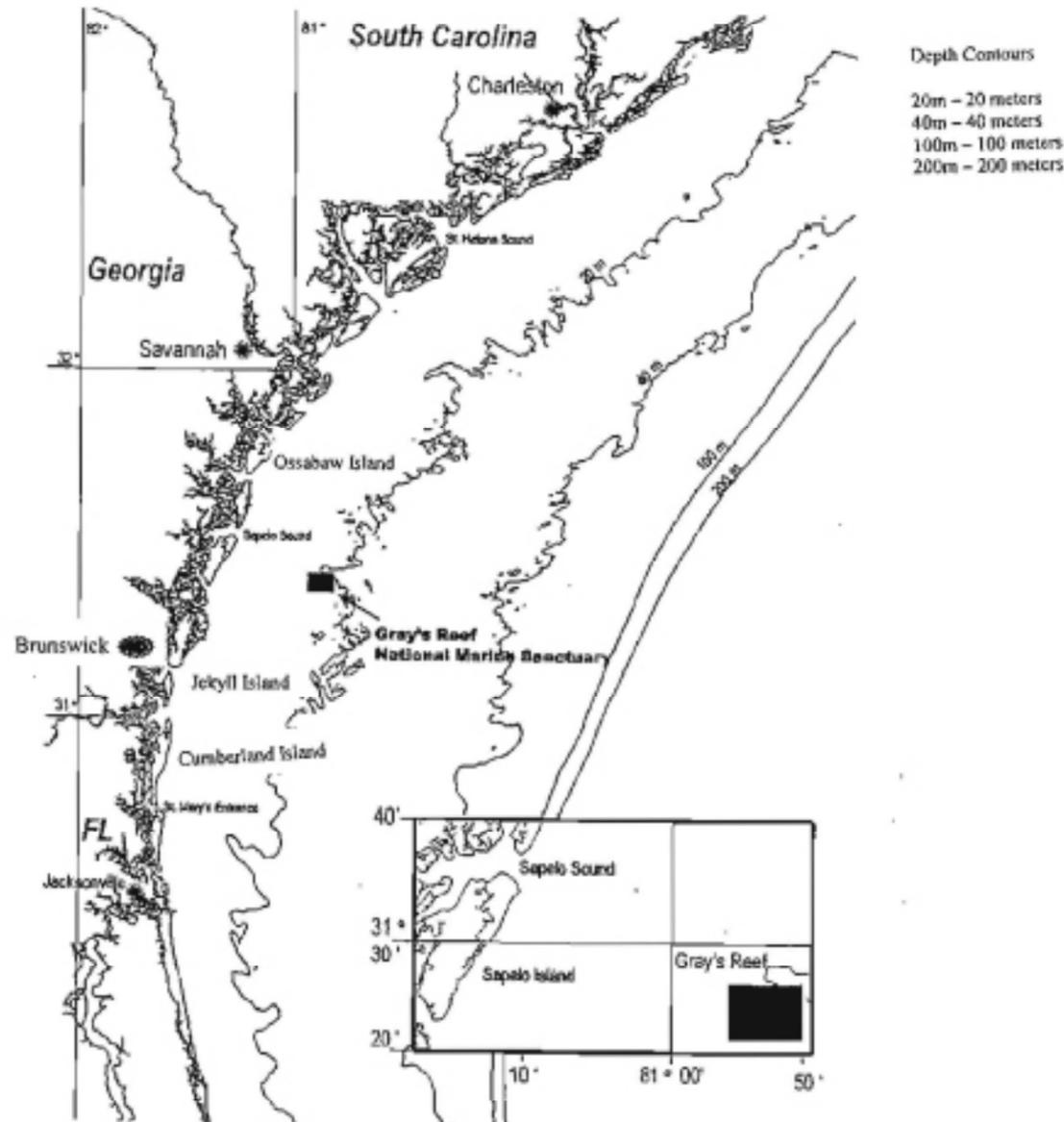
For the next set of questions/statements, please provide your answer to a 1 to 5 scale, where 1 means Strongly agree, 2 means Moderately agree, 3 means Neutral, 4 means Moderately disagree, and 5 means Strongly disagree.

Please circle the appropriate number of each question/statement. If Don't Know, circle DK.

	Strongly Agree	Moderately Agree	Neutral	Moderately Disagree	Strongly Disagree	Don't Know
1. I support the GRNMS as it is currently established	1	2	3	4	5	DK
2. I support the no anchoring regulation	1	2	3	4	5	DK
3. I support the prohibition on disturbing the sea bed including all mining and oil & gas activities	1	2	3	4	5	DK
4. I support the prohibition of commercial fishing use of wire fishing traps	1	2	3	4	5	DK
5. I support the prohibition commercial fishing using bottom trawls	1	2	3	4	5	DK
6. I support the prohibition on the damage or removal of bottom formations	1	2	3	4	5	DK
7. I support the prohibition on the use of explosives	1	2	3	4	5	DK
8. I support the prohibition on the discharge of pollutants in GRNMS waters	1	2	3	4	5	DK
9. I support the prohibition on spear fishing	1	2	3	4	5	DK
10. The process that GRNMS used to develop its rules and regulations was open and fair to all groups	1	2	3	4	5	DK
11. It has mattered whether the average person participated in the workshops and meeting of GRNMS because the average person could influence final decisions	1	2	3	4	5	DK
12. GRNMS has addressed the concerns of other federal and state governments in developing its rules and regulations	1	2	3	4	5	DK
13. GRNMS has not addressed the concerns of individual citizens in developing its rules and regulations	1	2	3	4	5	DK
14. Once that the GRNMS regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations	1	2	3	4	5	DK

Definition. Ocean areas include the Atlantic Ocean and coastal areas include inland bays, estuaries and tidally influenced portions of rivers where fresh and saltwater mix.

Map of Coastal & Ocean Georgia and GRNMS



- Grays Reef National Marine Sanctuary (GRNMS) is located 16 miles offshore of Sapelo Island, Georgia.
- GRNMS is 22-square miles and contains rocky ledges and sandy flats.
- GRNMS is a popular recreational fishing site with some diving.
- No commercial fishing currently takes place in GRNMS, but it is not prohibited.

Please circle the appropriate number of each question/statement. If Don't Know, circle DK.

	Strongly Agree	Moderately Agree	Neutral	Moderately Disagree	Strongly Disagree	Don't Know
15. The procedures that GRNMS has established to deal with violations of its regulations has been fair and just	1	2	3	4	5	DK
16. GRNMS does a good job of enforcing its regulations	1	2	3	4	5	DK
17. GRNMS does a good job of educating the public about its rules and regulations	1	2	3	4	5	DK

SECTION 2

Sources of Information on Ocean & Coastal Resources and GRNMS

In this section, we want to learn what are the best ways GRNMS can communicate with you by understanding the sources of information which you use, and which sources of information you trust.

18. Sources of Information Used (Please check all sources you use).

- a. Gray's Reef National Marine Sanctuary Advisory Council
- b. Gray's Reef National Marine Sanctuary Staff
- c. Gray's Reef National Marine Sanctuary Web site
- d. Gray's Reef National Marine Sanctuary Foundation
- e. NOAA's National Marine Fisheries Service
- f. Atlantic States Marine Fisheries Commission
- g. South Atlantic Fishery Management Council
- h. Georgia Department of Natural Resources
- i. Georgia Sea Grant
- j. Coastal Conservation Association (CCA) of Georgia
- k. Recreational Fishing Alliance (RFA)
- l. American Sportfishing Association (ASA)
- m. National Coalition for Marine Conservation
- n. International Game and Fish Association (IGFA)
- o. Southern Kingfish Association (SKA)
- p. Fishing Magazines/Newsletters
- q. SCUBA diving magazines/Newsletters
- r. Newspapers
- s. Radio
- t. Television
- u. Internet
- v. Gray's Reef National Marine Sanctuary Facebook Page
- w. Gray's Reef National Marine Sanctuary Twitter Feed
- x. Other Social Media (You Tube, Flickr, Instagram, etc.)
- y. Word of Mouth
- z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.) _____

19. For the sources of information you said you used in question 18, on a scale of 1 to 5, where 1 means No Trust at All and 5 means Completely Trust, to what extent do you trust each source of information?

Please circle your answer. If the source was not used, circle NA (Not Applicable).

SOURCES	No Trust at All	Very Little Trust	Neutral	Trust Very Much	Completely Trust	NA
a. Gray's Reef National Marine Sanctuary Advisory Council	1	2	3	4	5	NA
b. Gray's Reef National Marine Sanctuary Staff	1	2	3	4	5	NA
c. Gray's Reef National Marine Sanctuary Web site	1	2	3	4	5	NA
d. Gray's Reef National Marine Sanctuary Foundation	1	2	3	4	5	NA
e. NOAA's National Marine Fisheries Service	1	2	3	4	5	NA
f. Atlantic States Marine Fisheries Commission	1	2	3	4	5	NA
g. South Atlantic Fishery Management Council	1	2	3	4	5	NA
h. Georgia Department of Natural Resources	1	2	3	4	5	NA
i. Georgia Sea Grant	1	2	3	4	5	NA
j. Coastal Conservation Association (CCA) of Georgia	1	2	3	4	5	NA
k. Recreational Fishing Alliance (RFA)	1	2	3	4	5	NA
l. American Sportfishing Association (ASA)	1	2	3	4	5	NA
m. National Coalition for Marine Conservation	1	2	3	4	5	NA
n. International Game and Fish Association (IGFA)	1	2	3	4	5	NA
o. Southern Kingfish Association (SKA)	1	2	3	4	5	NA
p. Fishing Magazines/Newsletters	1	2	3	4	5	NA
q. SCUBA diving magazines/Newsletters	1	2	3	4	5	NA
r. Newspapers	1	2	3	4	5	NA
s. Radio	1	2	3	4	5	NA
t. Television	1	2	3	4	5	NA
u. Internet	1	2	3	4	5	NA
v. Gray's Reef National Marine Sanctuary Facebook Page	1	2	3	4	5	NA
w. Gray's Reef National Marine Sanctuary Twitter Feed	1	2	3	4	5	NA
x. Other Social Media (You Tube, Flickr, Instagram, etc.)	1	2	3	4	5	NA
y. Word of Mouth	1	2	3	4	5	NA
z. Others (please specify, include people like a marina manager, other anglers or divers, local community leader, family member, friend, etc.) _____	1	2	3	4	5	NA

Information From GRNMS

20. How do you like to receive information? **(Please check all that apply).**

- a. Web site
- b. E-mail list serve
- c. Newsletter by delivered by U.S. Post Office
- d. Telephone call from Staff
- e. E-mail from staff
- f. Social media (Twitter, Facebook, You Tube, etc)

21. To the best of your knowledge please name the agency who sets policy/management for each of the following:

- Name of Agency
- a. For National Marine Sanctuaries _____
 - b. For Ocean areas of Georgia (Federal waters) _____
 - c. For Coastal areas in and around Georgia (State waters) _____

22. How would you rank your familiarity with the rules and regulations in place at GRNMS?

(Please check one)

- Very familiar
- Somewhat Familiar
- I am not familiar with any of the rules or regulations

SECTION 3

Activities in Ocean & Coastal Areas in and Around Georgia

In this section, we want to learn about your recreation activities in the ocean & coastal areas in and around Georgia.

23. Which activities do you do in ocean & coastal areas both in and around Georgia?

Please check all that apply.

ACTIVITY	Georgia
Recreational bottom fishing	<input type="checkbox"/>
Recreational fishing – trolling or drifting in mid or top water	<input type="checkbox"/>
Recreational spear fishing with power heads	<input type="checkbox"/>
Recreational spear fishing without power heads	<input type="checkbox"/>
SCUBA diving (taking things)	<input type="checkbox"/>
SCUBA diving (don't take anything)	<input type="checkbox"/>
Whale watching of other wildlife viewing activities	<input type="checkbox"/>
Sailing	<input type="checkbox"/>
Beach Activities	<input type="checkbox"/>
Surfing	<input type="checkbox"/>
Windsurfing or Kite boarding	<input type="checkbox"/>
Personal Watercraft Use (jet skis, wave runners, etc.)	<input type="checkbox"/>
Shorebird Watching	<input type="checkbox"/>
Kayaking	<input type="checkbox"/>
Paddle boarding	<input type="checkbox"/>

24. For those activities you did in 2010, please provide how many days you did the activity in Georgia?

Count any part of a day as a whole day.

ACTIVITY	Days In Georgia
Recreational bottom fishing	_____
Recreational fishing – trolling or drifting in mid or top water	_____
Recreational spear fishing with power heads	_____
Recreational spear fishing without power heads	_____
SCUBA diving (taking things)	_____
SCUBA diving (don't take anything)	_____
Whale watching of other wildlife viewing activities	_____
Kayaking	_____
Paddle boarding	_____

SECTION 4

Information About Yourself

In this last section, we need information about you to help classify and analyze your responses to ensure the scientific validity of this information. Any information that can connect this information with you personally will be protected and not given out to anyone.

25. Male Female

26. Year born _____

27. Are you Hispanic or Latino? Yes No

28. What is your race? **(Check one or more)**

- White
- Black or African American
- American Indian or Alaskan Native
- Asian
- Native Hawaiian or Other Pacific Islander

29. How many people age 18 or older live in your household? _____ (number of people)

30. How many people under age 18 live in your household? _____ (number in household)

31. What type below best describes your household? **(Check one)**

- Single adult with no children 18 or under
- Single adult with children under 18
- Two adults with no children 18 or under
- Two adults with children under 18
- More than two adults with no children under 18
- More than two adults with children 18 or under

32. What is the highest level of education completed? **(Check one)**

- 8th grade or less
- 9th – 12th grade, no diploma
- 12th grade High School Grad or equivalent (GED or alternative credential)
- Some College, 1 or more years, no degree
- Associate's degree (for example: AA, AS)
- Bachelor's degree (for example: BA, BS)
- Master's degree (for example: MA, MS, MEng, Med, MSW, MBA)
- Professional School degree (for example: MD, DDS, DVM, LLB, JD)
- Doctor's degree (for example: PhD, EdD)

33. What is your employment status? **(Check all that apply)**

- unemployed
- employed full time
- employed part time
- retired
- student
- homemaker
- none of the above

34. Which category below best describes your annual household income before taxes in 2010?

(Check one)

- | | |
|---|---|
| <input type="checkbox"/> Less than \$5,000 | <input type="checkbox"/> \$40,000 to \$44,999 |
| <input type="checkbox"/> \$5,000 to \$9,999 | <input type="checkbox"/> \$45,000 to \$49,999 |
| <input type="checkbox"/> \$10,000 to \$14,999 | <input type="checkbox"/> \$50,000 to \$59,999 |
| <input type="checkbox"/> \$15,000 to \$19,999 | <input type="checkbox"/> \$60,000 to \$74,999 |
| <input type="checkbox"/> \$20,000 to \$24,999 | <input type="checkbox"/> \$75,000 to \$99,999 |
| <input type="checkbox"/> \$25,000 to \$29,999 | <input type="checkbox"/> \$100,000 to \$149,999 |
| <input type="checkbox"/> \$30,000 to \$34,999 | <input type="checkbox"/> \$150,000 or more |
| <input type="checkbox"/> \$35,000 to \$39,999 | |

35. Do you own a boat?

- Yes **(Go to Question 36)**
- No **(Skip to Question 37)**

36. What is the length of your boat _____ (feet)

37. Do you have memberships in any groups or clubs? **(Check all that apply)**

- Fishing groups, clubs or organizations
- Diving groups, clubs or organizations
- Environmental groups, clubs or organizations
- Chambers of Commerce
- Other (specify type) _____
- _____
- _____

That completes the survey. **THANK YOU.** Please put in the return self-addressed envelope and return to us.

FOR HIRE DIVE/SNORKEL OPERATIONS

IMPORTANT INFORMATION ABOUT THIS INFORMATION COLLECTION

1. Authorizations to Collect the Information

The National Marine Sanctuaries Act (16 USC 1431, et seq.) authorizes the Grays Reef National Marine Sanctuary to establish regulations to protect sanctuary resources or resolve user conflicts. This act also authorizes the Sanctuary to do research and collect information necessary for evaluating new regulations or monitoring the effects of existing and new regulations.

2. How the Information Will Be Used

The Grays Reef National Marine Sanctuary has developed a public process to evaluate and revise its current management plan and regulations. Through this public process and in consultation with the Sanctuary Advisory Council, the Grays Reef National Marine Sanctuary has revised its regulations to include a prohibition on spear fishing. In addition, alternatives have been evaluated a preferred alternative submitted to review and clearance in the regulatory process to create a research only area. The information will be used in monitoring and evaluating the socioeconomic impacts of Sanctuary management strategies and regulations.

3. Statement of Burden

Public reporting burden for this collection of information is estimated to average about three hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden, to Dr. Vernon R. (Bob) Leeworthy, Chief Economist, National Ocean Service, office of National marine Sanctuaries, 1305 East West Highway, SSMC 4, 11th floor, Silver Spring, MD 20910. Reference OMB Approval Number 0648-xxxx, Expiration Date: xxxxxxxx.

4. Your Participation and Protections of Proprietary Information

Your participation is voluntary. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid OMB Control Number.

Any information that identifies you or your business (name, name of business, address and telephone number) will not be given to anyone, including the government agencies sponsoring this information collection. The information that identifies you or your business will be destroyed by the contractor collecting the information at the end of the information collection. All other information will be available for distribution.

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxx

Location of Interview: _____

Recreational For Hire Dive Operations in the Georgia and GRNMS (Part 1)

GENERAL INFORMATION

Name _____

Telephone _____

E-mail: _____

Address: _____

1. Which of the following includes your age?

18-30 31-40 41-50 51-60 over 60

2a. Are you Hispanic or Latino YES ___ NO ___

2b. What is your race? (Mark one or more)

___ White ___ Black or African American ___ American Indian or Alaska Native

___ Asian ___ Native Hawaiian or Other Pacific Islander

3. How many family members do you support (including yourself)?

Myself only 2 3 4 5 6 7 Greater and 7

4. Are you a member of any of the following groups?

a. NAUI YES ___ NO ___

b. PADI YES ___ NO ___

c. SSI YES ___ NO ___

d. Chamber of Commerce YES ___ NO ___

e. An Environmental Group YES ___ NO ___

f. Other (specify) _____ YES ___ NO ___

5. What is your primary port/marina? _____

6. Do you have a secondary port/marina, from where you dive part of the year? YES ___ NO ___

- If YES, then which one? _____

7. How many years have you been a dive/snorkel operator? ___ (number of years)

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxxxx

Location of Interview: _____

8. How many years have you been a dive/snorkel operator in the ocean & coastal areas off Georgia? ____ (number of years)

9. Have you ever taken dive/snorkelers to the Grays Reef National Marine Sanctuary? (Interviewer—Please show map) YES ___ NO ___

- If YES, how many years have you taken dive/snorkelers to the Grays Reef National Marine Sanctuary? ____ (number of years)

10. What approximate percentage of your total business income is derived from the dive/snorkel operation? ____%

11. What approximate percentage of your TOTAL personal income is derived from the dive/snorkel operation? ____ %

12. What approximate percentage of your TOTAL household income is derived from the dive/snorkel operation? ____ %

13. How would you describe your dive/snorkel operation? (Mark one or more)

___ Full-time dive/snorkel operation ___ Part-time dive/snorkel operation

___ Seasonal dive/snorkel operation If seasonal, what months

___ Full-time Combination dive/snorkel, fishing, and wildlife observation operation

___ Part-time Combination dive/snorkel, fishing, and wildlife observation

___ Seasonal Combination dive/snorkel, fishing, and wildlife observation If seasonal, what

Months for dive/snorkel _____

Months for fishing _____

Months for wildlife observation _____

ECONOMIC INFORMATION

14. Number of boats/vessels at the operation: ____ (number of vessels)

15. Capacity of dive/snorkelers per vessel in operation:

Vessel 1: ____ divers/ ____ snorkelers Vessel 2: ____ divers/ ____ snorkelers

Vessel 3: ____ divers/ ____ snorkelers Vessel 4: ____ divers/ ____ snorkelers

16. Capacity of fishers per vessel in operation:

Vessel 1: ____ fishers Vessel 2: ____ fishers

Vessel 3: ____ fishers Vessel 4: ____ fishers

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxxxx

Location of Interview: _____

17. Capacity of wildlife observes per vessel in operation:

Vessel 1: _____wildlife observers Vessel 2: _____wildlife observers
Vessel 3: _____wildlife observers Vessel 4: _____wildlife observers

18. Number of employees at the operation:

a. Full time _____ b. Part time _____ c. Seasonal _____

19. Please provide your best estimate of the replacement value of the following items that you used last year (fill in year _____).

a. Vessel(s) and electronic equipment:	\$ _____
b. Diving and snorkeling gear:	\$ _____
c. Compressors	\$ _____
d. Rods/Reels	\$ _____
e. Other gear (specify) _____	\$ _____
_____	\$ _____
_____	\$ _____

20. Outstanding balance on loan amounts for vessels and equipment \$ _____

21. Please provide your best estimate for the following expenses last year:

Permits/Licenses:	\$ _____
Docking fees:	\$ _____
Interest payments on vessel(s):	\$ _____
P&I insurance on vessel(s)	\$ _____
Maintenance/repair on vessel/electronic equipment:	\$ _____
Maintenance/repair on dive/snorkel gear:	\$ _____
Maintenance on rods/reels:	\$ _____
Maintenance/repair on compressors:	\$ _____
Maintenance/repair on other equipment:	\$ _____
Other Dive equipment costs:	\$ _____
Advertising:	\$ _____
Office rent/mortgage:	\$ _____
Office utilities (electric, water, telephone, Internet):	\$ _____
Depreciation of vessels and equipment:	\$ _____
Business Taxes:	\$ _____
Other: _____	\$ _____
_____	\$ _____
_____	\$ _____

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxxxx
Location of Interview: _____

22. Please provide your best estimate for the following trip related expenses last year:

Dive equipment costs:	\$ _____
Fuel/oil:	\$ _____
Ice:	\$ _____
Food/Supplies:	\$ _____
Bait:	\$ _____
Captain wages & salaries (if not owner-captain):	\$ _____
Crew wages & salaries Number: _____	\$ _____
Other (specify) _____	\$ _____
_____	\$ _____
_____	\$ _____

23. Please provide your best estimate of your total business revenues last year:
\$ _____

24. Please provide your best estimate of your total revenues and/or percent of total revenues (from Question 23) last year by each geographic area: (See map for definitions of each area)

All Areas	\$ _____	% _____
Georgia and GRNMS	\$ _____	% _____
Georgia outside GRNMS	\$ _____	% _____
Inside GRNMS	\$ _____	% _____

PERSON DAYS AND TRIP COSTS

25. Please provide your best estimate of the number person days by type of activity for last year and the percentage of person days by activity and area. (Interviewer – show map of areas). A person day is one person for a whole day or any part of a day. 10 people on-board for an overnight trip would be 20 person days.

Activity	Total Person-days	All Areas (%)	Georgia Outside GRNMS (%)	Inside GRNMS (%)
SCUBA diving				
Snorkelers				
Fishing				
Wildlife Observation				
All Activities				

26. Please provide your best estimate of the cost per day for a typical day of operation by activity.

Activity	Fuel/Oil	Ice	Bait	Food/Supplies	Other	Crew	Captain (if not owner)
SCUBA diving							
Snorkeling							
Fishing							
Wildlife Observation							

27. Please provide the percentage of your person days of operation across each 1-minute by 1-minute grid cell for each activity. This is a forward looking rather than just your past activity patterns. We want to know where you expect you will conduct your activities in the future. This will be used to assess the possible impacts of any future zoning of areas by GRNMS.

Coding sheet attached.

For Hire Diving Operators in GRNMS Part 2.

SOURCES OF INFORMATION AND PERCEPTIONS

1. Please list the sources of information that you have received in the past on the GRNNMS and score them to your level of trust. Score level of trust 1=No trust at all, 2=very little trust, 3=neither trust nor distrust, 4=trust very much, and 5=completely trust.

SOURCE	Sources Used	Trust Sources
a. FGBNMS website	_____	_____
b. FGBNMS Staff	_____	_____
c. Sanctuary Advisory Council	_____	_____
d. FGBNMS brochures/literature	_____	_____
e. FGBNMS signage	_____	_____
f. Information in newspapers	_____	_____
g. Radio	_____	_____
h. TV	_____	_____
i. Word of mouth	_____	_____
j. Social Media (Twitter, You Tube, etc)	_____	_____
k. Others (please specify, include people like a marina manager, fishing guide, other anglers, local community leader, family member, friend, etc.)	_____	_____
_____	_____	_____
_____	_____	_____

For the next set of questions, please provide your answer on a 1 to 5 scale, where 1 means **Strongly agree**, 2 means **Moderately agree**, 3 means **Neutral**, 4 means **Moderately disagree**, and 5 means **Strongly disagree**

2. The process that NOAA has used to develop rules and regulations for the GRNMS was open and fair to all groups.

1 2 3 4 5 I don't know

3. The process has used by NOAA to develop boundaries and regulations for the GRNMS zones was open and fair to all groups.

1 2 3 4 5 I don't know

4. It has not mattered whether the average person participated in the workshops and meeting on the GRNMS because the average person could not influence the final decisions.

1 2 3 4 5 I don't know

5. NOAA has not addressed the concerns of other federal and state governments in developing rules and regulations for the GRNMS.

1 2 3 4 5 I don't know

6. NOAA has not addressed the concerns of individual citizens in developing rules and regulations for the GRNMS.

1 2 3 4 5 I don't know

7. Once that the GRNMS regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations.

1 2 3 4 5 I don't know

8. The procedures that NOAA has established to deal with violations of GRNMS regulations have been fair and just.

1 2 3 4 5 I don't know

NOTES

ATTITUDES ABOUT MANAGEMENT STRATEGIES AND REGULATION

In this section, we want to know what you think about current and proposed management strategies in the GRNMS, the effects of those management strategies and regulations, and how you think the GRNMS management has performed.

In management plan review public scoping and Sanctuary Advisory Council meetings, GRNMS has recently expanded its regulations to include a prohibition on spear fishing. In addition, in consultation with the Sanctuary Advisory Council and public meetings, GRNMS has evaluated several alternatives for a research only area in which all activities would be prohibited, except research and education.

For the next set of questions, please provide your answer on a 1 to 5 scale, where 1 means **Strongly agree**, 2 means **Moderately agree**, 3 means **Neutral**, 4 means **Moderately disagree**, and 5 means **Strongly disagree**

9. I support the GRNMS as it is currently established.

1 2 3 4 5 I don't know

10. I support the establishment of a research only area in the GRNMS.

1 2 3 4 5 I don't know

11. A research only area in the GRNMS would have a positive impact on the marine environment.

1 2 3 4 5 I don't know

12. There should be more areas set aside as a research only areas in the GRNMS.

1 2 3 4 5 I don't know

13. I support the prohibition of spear fishing in the GRNMS.

1 2 3 4 5 I don't know

14. There has been a net economic benefit to the coastal Georgia economy from the establishment of the GRNMS.

1 2 3 4 5 I don't know

15. Charter/Party boat fishing operations have benefited from the establishment of the GRNMS.

1 2 3 4 5 I don't know

16. GRNMS regulations have had no effect on my business.

1 2 3 4 5 I don't know

17. I support the no anchoring regulations in the GRNMS.

1 2 3 4 5 I don't know

18. I support the current no discharge regulations in the GRNMS.

1 2 3 4 5 I don't know

19. I support the current no harvest of bottom formations or taking of invertebrates inside the GRNMS.

1 2 3 4 5 I don't know

20. I support the rod-and-reel or hand line only fishing regulation in the GRNMS.

1 2 3 4 5 I don't know

21. I support the no taking of marine mammals and turtles in the GRNMS.

1 2 3 4 5 I don't know

22. I support the requirement of using a mooring buoy instead of anchoring in the GRNMS with the limit of vessel size for mooring use of 100 feet or less.

1 2 3 4 5 I don't know

23. I support stricter regulations on discharging of pollutants in the GRNMS.

1 2 3 4 5 I don't know

OMB No. 0648-xxxx. Expiration date: xxxxxxxx.

24. Please rate the status/condition of the following resources at GRNMS by their status/condition since the implementation of the GRNMS (1981), where 1 is much better and 5 is much worse.

RESOURCE	Better ←-----→ Worse					
a. Water quality	1	2	3	4	5	N/A
b. Sea-based pollution/marine debris	1	2	3	4	5	N/A
c. Live bottom habitat	1	2	3	4	5	N/A
d. Other bottom habitat	1	2	3	4	5	N/A
e. Fish populations (bottom fish)	1	2	3	4	5	N/A
f. Fish populations (other fish)	1	2	3	4	5	N/A
g. Other sea life (abundance)	1	2	3	4	5	N/A
h. Other sea life (diversity)	1	2	3	4	5	N/A
i. Mooring buoys	1	2	3	4	5	N/A
j. Invasive species (lionfish)	1	2	3	4	5	N/A

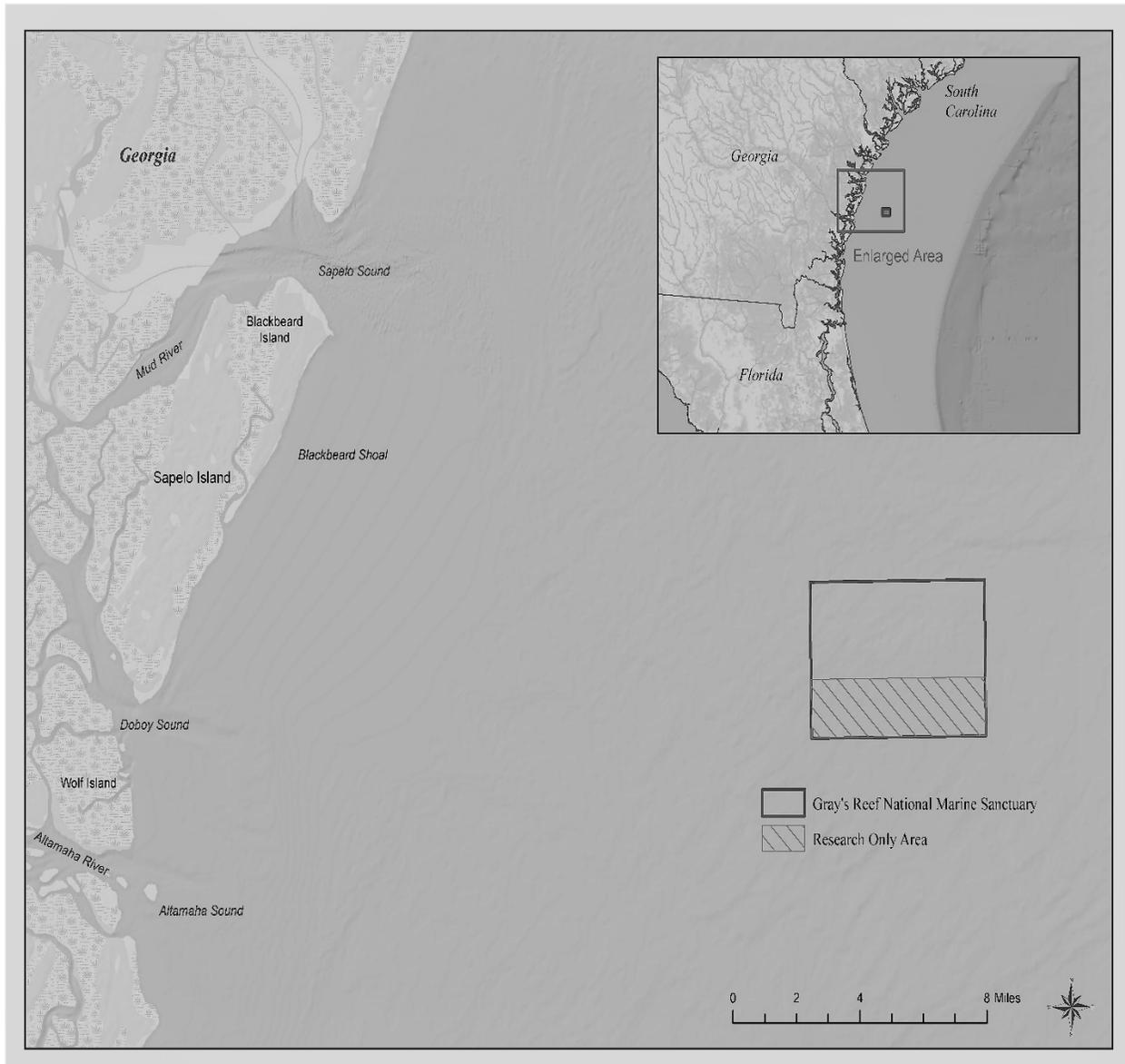
25. The GRNMS is mostly responsible for the status/condition of the resources that you rated in the previous question.

1 2 3 4 5 I don't know

26. In which area(s) has the GRNMS been most successful?

27. In which area(s) has the GRNMS been least successful?

Definition. Ocean areas include the Atlantic Ocean and coastal areas include inland bays, estuaries and tidally influenced portions of rivers where fresh and saltwater mix.



- Gray's Reef National Marine Sanctuary (GRNMS) is located 19 miles offshore of Sapelo Island, Georgia.
- GRNMS is 22-square miles and contains rocky ledges and sand flats.
- GRNMS is a popular recreational fishing site with some diving.
- No commercial fishing currently takes place in GRNMS, but it is not prohibited.

FOR HIRE CHARTER AND PARTY/HEAD BOATS

IMPORTANT INFORMATION ABOUT THIS INFORMATION COLLECTION

1. Authorizations to Collect the Information

The National Marine Sanctuaries Act (16 USC 1431, et seq.) authorizes the Grays Reef National Marine Sanctuary to establish regulations to protect sanctuary resources or resolve user conflicts. This act also authorizes the Sanctuary to do research and collect information necessary for evaluating new regulations and monitor the effects of its regulations and management strategies.

2. How the Information Will Be Used

The Grays Reef National Marine Sanctuary has developed a public process to evaluate and revise its current management plan and regulations. Through this public process and in consultation with the Sanctuary Advisory Council, the Grays Reef National Marine Sanctuary has recently revised its regulations to prohibit all spear fishing. In addition, several alternatives for a research only area were evaluated a preferred option selected with consultation from the Sanctuary Advisory Council and submitted for review and clearance in the regulatory process. The information will be used in monitoring and evaluating the socioeconomic impacts of Sanctuary management strategies and regulations.

3. Statement of Burden

Public reporting burden for this collection of information is estimated to average about three hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden, to Dr. Vernon R. (Bob) Leeworthy, Chief Economist, National Ocean Service, office of National marine Sanctuaries, 1305 East West Highway, SSMC 4, 11th floor, Silver Spring, MD 20910. Reference OMB Approval Number 0648-xxxx, Expiration Date: xxxxxxxx.

4. Your Participation and Protections of Proprietary Information

Your participation is voluntary. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid OMB Control Number.

Any information that identifies you or your business (name, name of business, address and telephone number) will not be given to anyone, including the government agencies sponsoring this information collection. The information that identifies you or your business will be destroyed by the contractor collecting the information at the end of the information collection. All other information will be available for distribution.

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxx

Location of Interview: _____

Recreational For Hire Fishing Operations in Georgia and GRNMS (Part 1)

GENERAL INFORMATION

Name _____

Telephone _____

E-mail: _____

Address: _____

1. Which of the following includes your age?

18-30 31-40 41-50 51-60 over 60

2a. Are you Hispanic or Latino YES ___ NO ___

2b. What is your race? (Mark one or more)

___ White ___ Black or African American ___ American Indian or Alaska Native

___ Asian ___ Native Hawaiian or Other Pacific Islander

3. How many family members do you support (including yourself)?

Myself only 2 3 4 5 6 7 Greater and 7

4. Are you a member of any of the following groups?

a. Coastal Conservation Association (CCA) YES ___ NO ___

b. Recreational Fishing Alliance (RFA) YES ___ NO ___

c. American Sports Fishing Association (ASA) YES ___ NO ___

d. Southern Kingfish Association (SKA) YES ___ NO ___

d. Chamber of Commerce YES ___ NO ___

e. An Environmental Group YES ___ NO ___

f. Other (specify) _____ YES ___ NO ___

5. What is your primary port/marina? _____

6. Do you have a secondary port/marina, from where you fish part of the year? YES ___ NO ___

- If YES, then which one? _____

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxx

Location of Interview: _____

7. How many years have you been a charter/party boat operator? ____ (number of years)
8. How many years have you been a charter/party operator in the ocean & coastal areas off Georgia? ____ (number of years)
9. Have you ever taken fishermen to the Grays Reef National Marine Sanctuary? (Interviewer—Please show map) YES __ NO __
 - If YES, how many years have you taken fishermen to the Grays Reef National Marine Sanctuary? ____ (number of years)
10. What approximate percentage of your total business income is derived from the charter/party boat operation? ____%
11. What approximate percentage of your TOTAL personal income is derived from the charter/party boat operation? ____ %
12. What approximate percentage of your TOTAL household income is derived from the charter/party boat operation? ____ %
13. How would you describe your fishing operation? (Mark one or more)
____ Full-time Charter Boat operation __ Part-time Charter Boat operation
____ Seasonal Charter Boat operation If seasonal, what months _____
____ Full-time Party/Head Boat operation __ Part-time Party/Head boat operation
____ Seasonal Party/Head boat operation If seasonal, what months _____

ECONOMIC INFORMATION

14. Number of boats/vessels at the operation: ____ (number of vessels)
15. Capacity of fishermen per vessel in operation:
Vessel 1: ____fishermen Vessel 2: ____fishermen
Vessel 3: ____fishermen Vessel 4: ____fishermen
16. Number of employees at the operation:
a. Full time ____ b. Part time ____ c. Seasonal ____
17. Please provide your best estimate of the replacement value of the following items that you used last year (fill in year ____).
 - a. Vessel(s) and electronic equipment: \$ _____
 - b. Diving and snorkeling gear: \$ _____
 - c. Compressors \$ _____
 - d. Rods/Reels \$ _____

Date of Interview _____ OMB No. 0648-xxxx Exp. Date: xxxxxxxxxxxx

Location of Interview: _____

e. Other gear (specify) _____ \$ _____
_____ \$ _____
_____ \$ _____

18. Outstanding balance on loan amounts for vessels and equipment \$ _____

19. Please provide your best estimate for the following expenses last year:

Permits/Licenses: \$ _____
Docking fees: \$ _____
Interest payments on vessel(s): \$ _____
P&I insurance on vessel(s) \$ _____
Maintenance/repair on vessel/electronic equipment: \$ _____
Maintenance on rods/reels: \$ _____
Maintenance/repair on other equipment: \$ _____
Advertising: \$ _____
Office rent/mortgage: \$ _____
Office utilities (electric, water, telephone, Internet): \$ _____
Depreciation on vessel and equipment: \$ _____
Business taxes: \$ _____
Other: _____ \$ _____
_____ \$ _____
_____ \$ _____

20. Please provide your best estimate for the following trip related expenses last year:

Fuel/oil: \$ _____
Ice: \$ _____
Food/Supplies: \$ _____
Bait: \$ _____
Captain wages & salaries (if not owner-captain): \$ _____
Crew wages & salaries Number: _____ \$ _____
Other (specify) _____ \$ _____
_____ \$ _____

21. Please provide your best estimate of your total business revenues last year:
\$ _____

22. Please provide your best estimate of your total revenues and/or percent of total revenues (from Question 21) last year by each geographic area: (See map for definitions of each area)

All Areas \$ _____ % _____
Georgia outside GRNMS \$ _____ % _____
GRNMS \$ _____ % _____

PERSON DAYS AND TRIP COSTS

23. Please provide your best estimate of the number person days by type of activity for last year and the percentage of person days by activity and area. (Interviewer – show map of areas). A person day is one person for a whole day or any part of a day. 10 people on-board for an overnight trip would be 20 person days.

Activity	Total Person-days	All Areas (%)	Georgia Outside GRNMS (%)	Inside GRNMS (%)
Bottom fishing				
Trolling/Drifting				
Spear fishing				
All Activities				

24. Please provide your best estimate of the cost per day for a typical day of operation by activity.

Activity	Fuel/Oil	Ice	Bait	Food/Supplies	Other	Crew	Captain (if not owner)
Bottom fishing							
Trolling/Drifting							
Spear fishing							

25. Please provide the percentage of your person days of operation across each 1-minute by 1-minute grid cell for each activity. This is a forward looking rather than just your past activity patterns. We want to know where you expect you will conduct your activities in the future. This will be used to assess the possible impacts of any future zoning of areas by GRNMS.

Coding sheet attached.

For Hire Fishing Operators in GRNMS Part 2.

SOURCES OF INFORMATION AND PERCEPTIONS

1. Please list the sources of information that you have received in the past on the GRNNMS and score them to your level of trust. Score level of trust 1=No trust at all, 2=very little trust, 3=neither trust nor distrust, 4=trust very much, and 5=completely trust.

SOURCE	Sources Used	Trust Sources
a. FGBNMS website	_____	_____
b. FGBNMS Staff	_____	_____
c. Sanctuary Advisory Council	_____	_____
d. FGBNMS brochures/literature	_____	_____
e. FGBNMS signage	_____	_____
f. Information in newspapers	_____	_____
g. Radio	_____	_____
h. TV	_____	_____
i. Word of mouth	_____	_____
j. Social Media (Twitter, You Tube, etc)	_____	_____
k. Others (please specify, include people like a marina manager, fishing guide, other anglers, local community leader, family member, friend, etc.)	_____	_____
_____	_____	_____
_____	_____	_____

For the next set of questions, please provide your answer on a 1 to 5 scale, where 1 means **Strongly agree**, 2 means **Moderately agree**, 3 means **Neutral**, 4 means **Moderately disagree**, and 5 means **Strongly disagree**

2. The process that NOAA has used to develop rules and regulations for the GRNMS was open and fair to all groups.

1 2 3 4 5 I don't know

3. The process has used by NOAA to develop boundaries and regulations for the GRNMS zones was open and fair to all groups.

1 2 3 4 5 I don't know

4. It has not mattered whether the average person participated in the workshops and meeting on the GRNMS because the average person could not influence the final decisions.

1 2 3 4 5 I don't know

5. NOAA has not addressed the concerns of other federal and state governments in developing rules and regulations for the GRNMS.

1 2 3 4 5 I don't know

6. NOAA has not addressed the concerns of individual citizens in developing rules and regulations for the GRNMS.

1 2 3 4 5 I don't know

7. Once that the GRNMS regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations.

1 2 3 4 5 I don't know

8. The procedures that NOAA has established to deal with violations of GRNMS regulations have been fair and just.

1 2 3 4 5 I don't know

NOTES

ATTITUDES ABOUT MANAGEMENT STRATEGIES AND REGULATION

In this section, we want to know what you think about current and proposed management strategies in the GRNMS, the effects of those management strategies and regulations, and how you think the GRNMS management has performed.

In management plan review public scoping and Sanctuary Advisory Council meetings, GRNMS has recently expanded its regulations to include a prohibition on spear fishing. In addition, in consultation with the Sanctuary Advisory Council and public meetings, GRNMS has evaluated several alternatives for a research only area in which all activities would be prohibited, except research and education.

For the next set of questions, please provide your answer on a 1 to 5 scale, where 1 means **Strongly agree**, 2 means **Moderately agree**, 3 means **Neutral**, 4 means **Moderately disagree**, and 5 means **Strongly disagree**

9. I support the GRNMS as it is currently established.

1 2 3 4 5 I don't know

10. I support the establishment of a research only area in the GRNMS.

1 2 3 4 5 I don't know

11. A research only area in the GRNMS would have a positive impact on the marine environment.

1 2 3 4 5 I don't know

12. There should be more areas set aside as a research only areas in the GRNMS.

1 2 3 4 5 I don't know

13. I support the prohibition of spear fishing in the GRNMS.

1 2 3 4 5 I don't know

14. There has been a net economic benefit to the coastal Georgia economy from the establishment of the GRNMS.

1 2 3 4 5 I don't know

15. Charter/Party boat fishing operations have benefited from the establishment of the GRNMS.

1 2 3 4 5 I don't know

16. GRNMS regulations have had no effect on my business.

1 2 3 4 5 I don't know

17. I support the no anchoring regulations in the GRNMS.

1 2 3 4 5 I don't know

18. I support the current no discharge regulations in the GRNMS.

1 2 3 4 5 I don't know

19. I support the current no harvest of bottom formations or taking of invertebrates inside the GRNMS.

1 2 3 4 5 I don't know

20. I support the rod-and-reel or hand line only fishing regulation in the GRNMS.

1 2 3 4 5 I don't know

21. I support the no taking of marine mammals and turtles in the GRNMS.

1 2 3 4 5 I don't know

22. I support the requirement of using a mooring buoy instead of anchoring in the GRNMS with the limit of vessel size for mooring use of 100 feet or less.

1 2 3 4 5 I don't know

23. I support stricter regulations on discharging of pollutants in the GRNMS.

1 2 3 4 5 I don't know

OMB No. 0648-xxxx. Expiration date: xxxxxxxx.

24. Please rate the status/condition of the following resources at GRNMS by their status/condition since the implementation of the GRNMS (1981), where 1 is much better and 5 is much worse.

RESOURCE	Better ←-----→ Worse					
a. Water quality	1	2	3	4	5	N/A
b. Sea-based pollution/marine debris	1	2	3	4	5	N/A
c. Live bottom habitat	1	2	3	4	5	N/A
d. Other bottom habitat	1	2	3	4	5	N/A
e. Fish populations (bottom fish)	1	2	3	4	5	N/A
f. Fish populations (other fish)	1	2	3	4	5	N/A
g. Other sea life (abundance)	1	2	3	4	5	N/A
h. Other sea life (diversity)	1	2	3	4	5	N/A
i. Mooring buoys	1	2	3	4	5	N/A
j. Invasive species (lionfish)	1	2	3	4	5	N/A

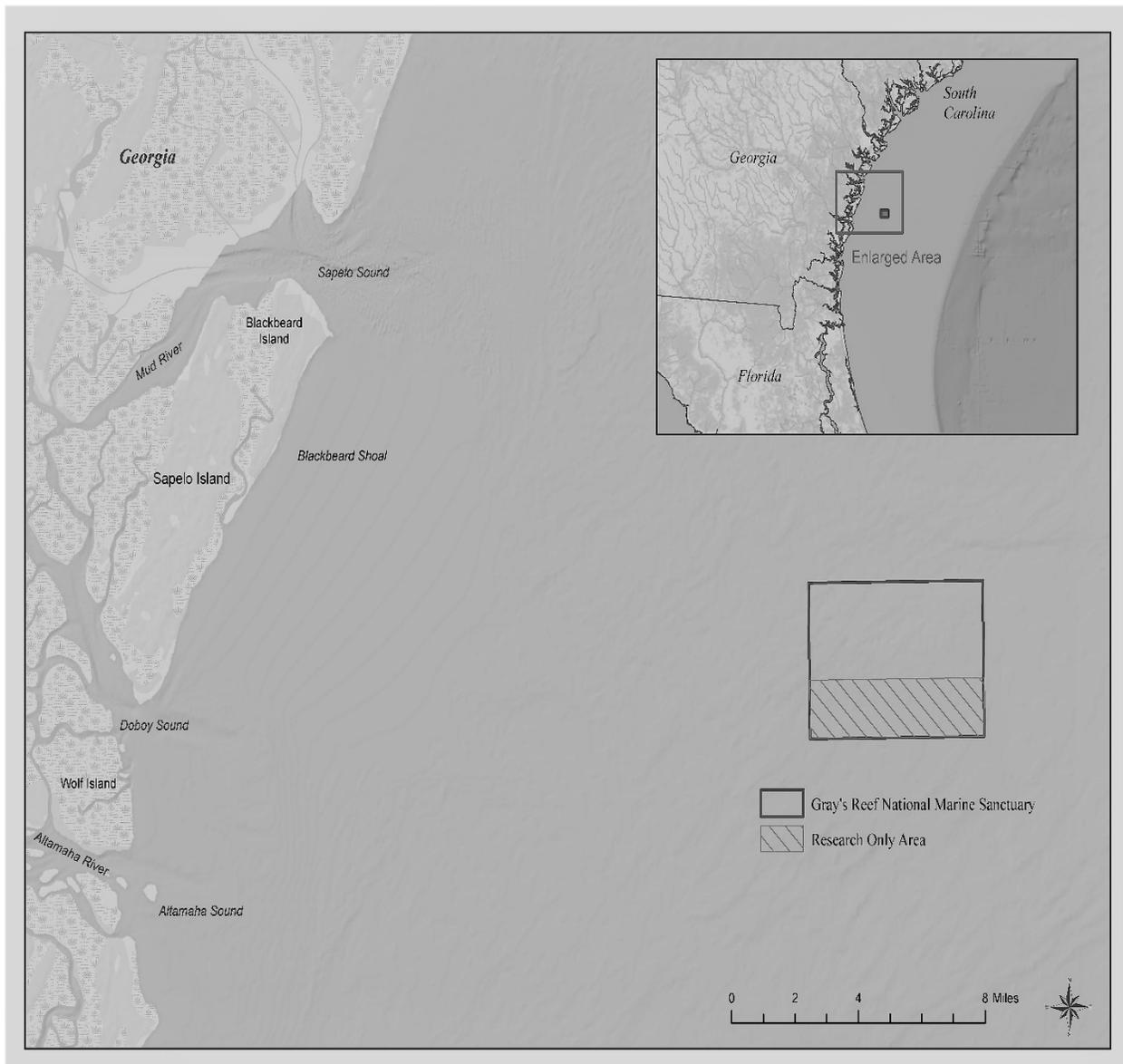
25. The GRNMS is mostly responsible for the status/condition of the resources that you rated in the previous question.

1 2 3 4 5 I don't know

26. In which area(s) has the GRNMS been most successful?

27. In which area(s) has the GRNMS been least successful?

Definition. Ocean areas include the Atlantic Ocean and coastal areas include inland bays, estuaries and tidally influenced portions of rivers where fresh and saltwater mix.



- Gray's Reef National Marine Sanctuary (GRNMS) is located 19 miles offshore of Sapelo Island, Georgia.
- GRNMS is 22-square miles and contains rocky ledges and sand flats.
- GRNMS is a popular recreational fishing site with some diving.
- No commercial fishing currently takes place in GRNMS, but it is not prohibited.

rehabilitation will be cared for by authorized persons and facilities.

The conservation plan will mitigate the impacts of any incidental takes of ESA-listed sea turtles that are harmed due to interactions with other fisheries in the area. Specifically, GSML will remove, taking into account any human safety considerations, any turtles it encounters ensnared in fishing lines, nets, and trap ropes. If any of these sea turtles require care, GSML will transport them to a rehabilitation facility.

The applicant's conservation plan did not include procedures for handling Gulf sturgeon. However, the applicant will follow specific handling procedures for Gulf sturgeon to minimize impacts to this species in the unlikely event an interaction should occur.

This conservation plan will be funded through GSML revenues derived from the sale of the marine fish, invertebrates, and algae collected via trawling; donations from membership in its aquarium; and grants and contracts.

GSML considered and rejected two other alternatives: (1) Reduced trawl times; and (2) alternative methods. GSML cannot practicably further reduce the trawl times or employ alternative methodologies.

National Environmental Policy Act

This notice is provided pursuant to section 10(c) of the ESA and the National Environmental Policy Act regulations (40 CFR 1506.6). NMFS will evaluate the application, associated documents, and submitted comments to determine whether the application meets the requirements of the ESA Section 10(a)(1)(B) permitting process. If it is determined that the requirements are met, a permit will be issued for incidental takes of ESA-listed sea turtles and Gulf sturgeon under the jurisdiction of NMFS.

The final permit determinations will not be completed until after the end of the 30-day comment period and will fully consider all public comments received during the comment period. NMFS will publish a record of its final action in the **Federal Register**.

Dated: April 7, 2017.

Angela Somma,

Acting Deputy Director, Office of Protected Resources, National Marine Fisheries Service.

[FR Doc. 2017-07410 Filed 4-11-17; 8:45 am]

BILLING CODE 3510-22-P

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

Proposed Information Collection; Comment Request; Knowledge, Attitudes and Perceptions of the Management Strategies and Regulations of the Grays Reef National Marine Sanctuary

AGENCY: National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice.

SUMMARY: The Department of Commerce, as part of its continuing effort to reduce paperwork and respondent burden, invites the general public and other Federal agencies to take this opportunity to comment on proposed and/or continuing information collections, as required by the Paperwork Reduction Act of 1995.

DATES: Written comments must be submitted on or before June 12, 2017.

ADDRESSES: Direct all written comments to Jennifer Jessup, Departmental Paperwork Clearance Officer, Department of Commerce, Room 6616, 14th and Constitution Avenue NW., Washington, DC 20230 (or via the Internet at pracomments@doc.gov).

FOR FURTHER INFORMATION CONTACT: Requests for additional information or copies of the information collection instrument and instructions should be directed to Dr. Vernon R. (Bob) Leeworthy, (240) 533-0647 or Bob.Leeworthy@noaa.gov.

SUPPLEMENTARY INFORMATION:

I. Abstract

This request is for a reinstatement, with changes, of a previous information collection.

NOAA, through its National Ocean Service, Office of National Marine Sanctuaries, is replicating a study done in 2010–2011 on users and non-users of Gray's Reef National Marine Sanctuary (GRNMS) off the coast of Georgia. The study will support analysis of its current regulations to support management plan revision, which could include changes in regulations. The study will collect information to assess recreational uses of GRNMS and surrounding areas off the coast of Georgia, demographic profiles, and attitudes on GRNMS current regulations, especially the research only area, which displaced recreational fishing. In addition, user perceptions of the conditions of GRNMS natural resources/environment will be obtained.

II. Method of Collection

A mail survey will be used as was done in 2010–2011 using self-addressed, postage paid mailback questionnaires.

III. Data

OMB Control Number: 0648–XXXX.
Form Number: None.

Type of Review: Regular (reinstatement with changes).

Affected Public: Individuals or households.

Estimated Number of Respondents: 300.

Estimated Time per Response: 30 minutes per individual.

Estimated Total Annual Burden Hours: 150.

Estimated Total Annual Cost to Public: \$0 in recordkeeping/reporting costs.

IV. Request for Comments

Comments are invited on: (a) Whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information shall have practical utility; (b) the accuracy of the agency's estimate of the burden (including hours and cost) of the proposed collection of information; (c) ways to enhance the quality, utility, and clarity of the information to be collected; and (d) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques or other forms of information technology.

Comments submitted in response to this notice will be summarized and/or included in the request for OMB approval of this information collection; they also will become a matter of public record.

Sarah Brabson,

NOAA PRA Clearance Officer.

[FR Doc. 2017-07282 Filed 4-11-17; 8:45 am]

BILLING CODE 3510-NK-P

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

Evaluations of National Estuarine Research Reserves

AGENCY: Office for Coastal Management (OCM), National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (DOC).

ACTION: Notice.

SUMMARY: The National Oceanic and Atmospheric Administration (NOAA),