

Survey for Coastal & Ocean Georgia and Grays Reef National Marine Sanctuary

This survey is intended for **users** of 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, andnd, 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.

For statistical sampling purposes, we need the **one of the persons in the household who has used Grays Reef National Marine Sanctuary that is 18 years of age or older to fill out the questionnaire.**

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.

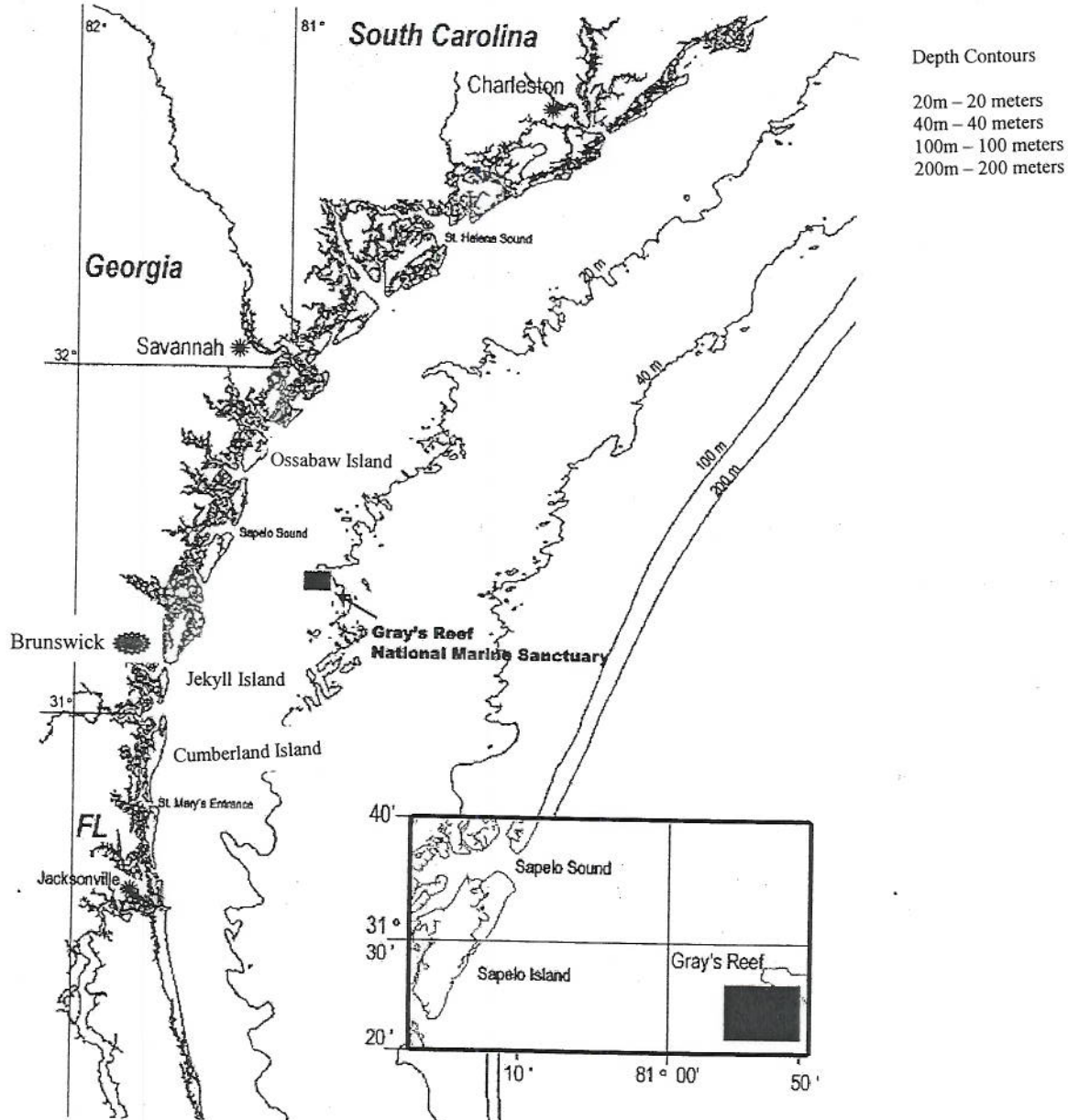
Reference OMB Control Number 0648-xxxx, Expiration Date: xxxxxxxx.

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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.

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				Strongly Disagree	
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 not mattered whether the average person participated in the workshops and meeting of the GRNMS because the average person could not influence the final decisions.....	1	2	3	4	5	DK
12. GRNMS has not 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

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

	Strongly Agree			Strongly Disagree		
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
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. Grays Reef National Marine Sanctuary Advisory Council
- b. Grays Reef National Marine Sanctuary Staff
- c. Grays Reef National Marine Sanctuary Web site
- d. NOAA's National Marine Fisheries Service
- e. Atlantic States Marine Fisheries Commission
- f. Atlantic Fishery Management Council
- g. Georgia Department of Natural Resources
- h. Georgia Sea Grant
- i. Georgia's Coastal Conservation Association (CCA)
- j. Recreational Fishing Alliance (RFA)
- k. American Sportfishing Association (ASA)
- l. National Coalition for Marine Conservation
- m. International Game and Fish Association (IGFA)
- n. Southern Kingfish Association (SKA)
- o. Fishing Magazines/Newsletters
- p. SCUBA diving magazines/Newsletters
- q. Newspapers
- r. Radio
- s. Television
- t. Internet
- u. Social Media (Twitter, You Tube, Facebook, etc.)
- v. Word of Mouth
- x. 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					Completely Trust	
a. Grays Reef National Marine Sanctuary Advisory Council..	1	2	3	4	5	NA	
b. Grays Reef National Marine Sanctuary Staff.....	1	2	3	4	5	NA	
c. Grays Reef National Marine Sanctuary Web site.....	1	2	3	4	5	NA	
d. NOAA's National Marine Fisheries Service.....	1	2	3	4	5	NA	
e. Atlantic States Marine Fisheries Commission.....	1	2	3	4	5	NA	
f. Atlantic Fishery Management Council.....	1	2	3	4	5	NA	
g. Georgia Department of Natural Resources.....	1	2	3	4	5	NA	
h. Georgia Sea Grant.....	1	2	3	4	5	NA	
i. Georgia's Coastal Conservation Association (CCA).....	1	2	3	4	5	NA	
j. Recreational Fishing Alliance (RFA).....	1	2	3	4	5	NA	
k. American Sportfishing Association (ASA).....	1	2	3	4	5	NA	
l. National Coalition for Marine Conservation.....	1	2	3	4	5	NA	
m. International Game and Fish Association (IGFA).....	1	2	3	4	5	NA	
n. Southern Kingfish Association (SKA).....	1	2	3	4	5	NA	
o. Fishing Magazines/Newsletters.....	1	2	3	4	5	NA	
p. SCUBA diving magazines/Newsletters.....	1	2	3	4	5	NA	
q. Newspapers.....	1	2	3	4	5	NA	
r. Radio.....	1	2	3	4	5	NA	
s. Television.....	1	2	3	4	5	NA	
t. Internet.....	1	2	3	4	5	NA	
u. Social Media (Twitter, You Tube, Facebook, etc.).....	1	2	3	4	5	NA	
v. Word of Mouth.....	1	2	3	4	5	NA	
x. 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	
_____	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

21. Do you know who sets policy/management for National Marine Sanctuaries and for fisheries in ocean and coastal areas?

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

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 IN GRNMS

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

23. On a scale of 1 to 5, where 1 means Better and 5 means Worse, please rate the . **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.**

RESOURCE	Getting Better					Getting Worse	
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	

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"/>

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).....	— — —	— — —
Whale watching of other wildlife viewing activities.....	— — —	— — —

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.**
- **Party boats usually carry large numbers of people and charge by the head or person and are sometimes called head-boats.**

ACTIVITY	Days Private Boat	Days Charter Boat	Days Party 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 |

SECTION 6: 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.**

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

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

SECTION 8: 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 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 | |

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.

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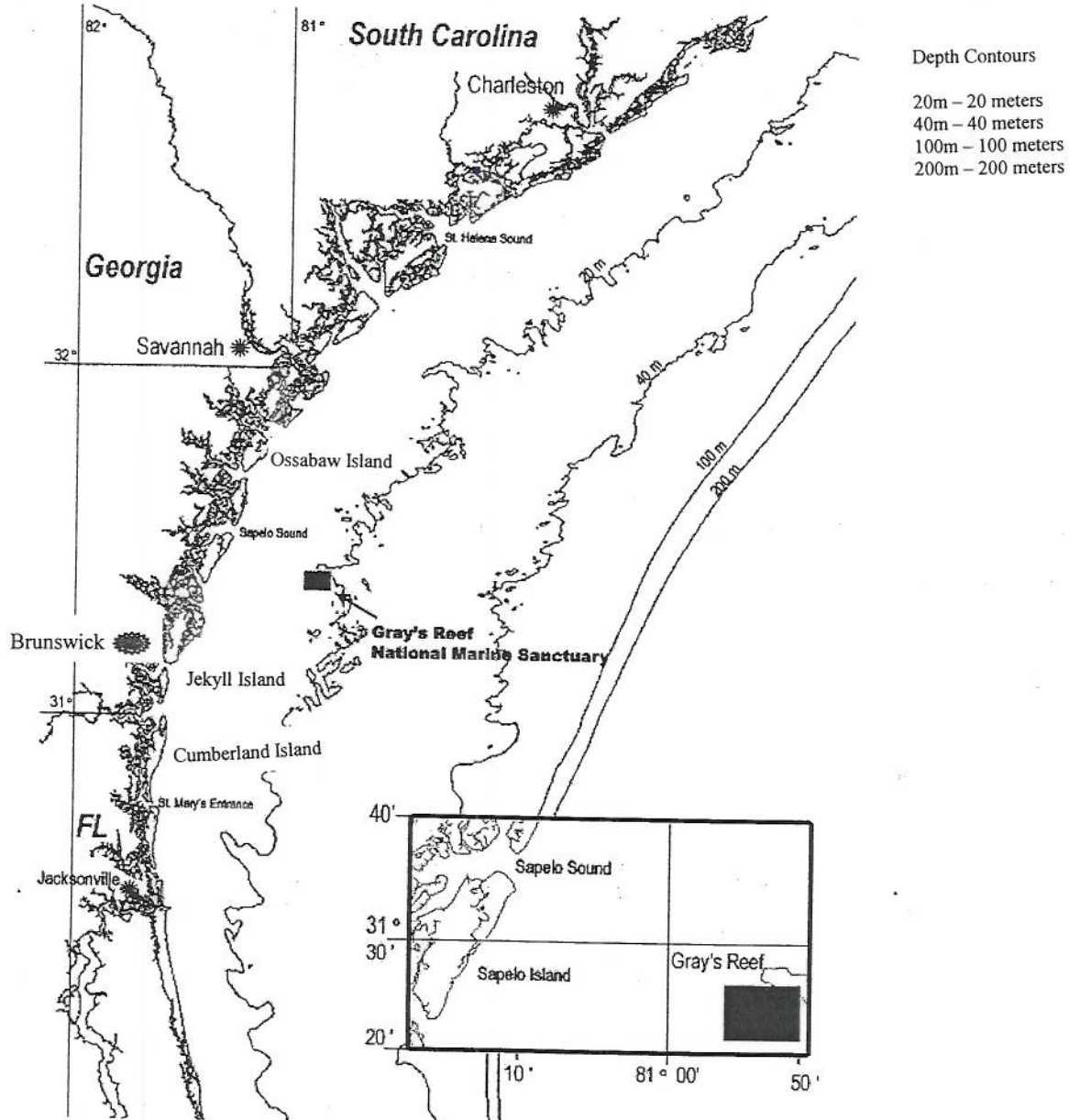
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Map of Coastal & Ocean Georgia and GRNMS



- 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.

SECTION 1: OPINIONS ABOUT OCEAN & COASTAL RESOURCES PROTECTION AND MANAGEMENT

1. On a scale of 1 to 5, where 1 means No Concern and 5 means Maximum Concern, to what extent are you concerned about the health of ocean & coastal areas around Georgia outside the Grays Reef National Marine Sanctuary (GRNMS)? **Please circle the number for each item.**

	No Concern			Maximum Concern	
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 reef 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

2. On a scale of 1 to 5, where 1 means No Concern and 5 means Maximum Concern, to what extent are you concerned about the health of ocean areas in the Grays Reef National Marine Sanctuary (GRNMS)? **Please circle the number for each item.**

	No Concern			Maximum Concern	
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 reef 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

3. On a scale from 1 to 5, where 1 means No Support and 5 means Maximum 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				Maximum 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 and 5 means Maximum Support, to what extent do you support the protection of ocean resources inside GRNMS? **Please circle the number for your answer.**

	No Support				Maximum 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 and 5 means Maximum 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				Maximum 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 and 5 means Maximum 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				Maximum Support
	1	2	3	4	5
Marine Reserves <u>inside</u> GRNMS.....					

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**

9. On a scale of 1 to 5, where 1 means No Support and 5 means Maximum 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				Maximum Support
	1	2	3	4	5
Research Only Areas in Georgia <u>outside</u> GRNMS					

10. On a scale of 1 to 5, where 1 means No Support and 5 means Maximum Support, to what extent do you support protection of ocean & coastal resources inside GRNMS with the use of “Research Only Areas”? **Please circle your answer.**

	No Support				Maximum Support
Research Only Areas <u>inside</u> GRNMS.....	1	2	3	4	5

11. What is the maximum amount of impact you would find acceptable for each type of Activity, if Research Only Areas were used? **Please provide the maximum percent of impact on 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 and 5 means Maximum 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				Maximum 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 and 5 means Maximum 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				Maximum 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. Grays Reef National Marine Sanctuary Advisory Council
- b. Grays Reef National Marine Sanctuary Staff
- c. Grays Reef National Marine Sanctuary Web site
- d. NOAA's National Marine Fisheries Service
- e. Atlantic States Marine Fisheries Commission
- f. Atlantic Fishery Management Council
- g. Georgia Department of Natural Resources
- h. Georgia Sea Grant
- i. Georgia's Coastal Conservation Association (CCA)
- j. Recreational Fishing Alliance (RFA)
- k. American Sportfishing Association (ASA)
- l. National Coalition for Marine Conservation
- m. International Game and Fish Association (IGFA)
- n. Southern Kingfish Association (SKA)
- o. Fishing Magazines/Newsletters
- p. SCUBA diving magazines/Newsletters
- q. Newspapers
- r. Radio
- s. Television
- t. Internet
- u. Social Media (Twitter, You Tube, Facebook, etc.)
- v. Word of Mouth
- x. 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				Completely Trust	
	1	2	3	4	5	NA
a. Grays Reef National Marine Sanctuary Advisory Council..	1	2	3	4	5	NA
b. Grays Reef National Marine Sanctuary Staff.....	1	2	3	4	5	NA
c. Grays Reef National Marine Sanctuary Web site.....	1	2	3	4	5	NA
d. NOAA's National Marine Fisheries Service.....	1	2	3	4	5	NA
e. Atlantic States Marine Fisheries Commission.....	1	2	3	4	5	NA
f. Atlantic Fishery Management Council.....	1	2	3	4	5	NA
g. Georgia Department of Natural Resources.....	1	2	3	4	5	NA
h. Georgia Sea Grant.....	1	2	3	4	5	NA
i. Georgia's Coastal Conservation Association (CCA).....	1	2	3	4	5	NA
j. Recreational Fishing Alliance (RFA).....	1	2	3	4	5	NA
k. American Sportfishing Association (ASA).....	1	2	3	4	5	NA
l. National Coalition for Marine Conservation.....	1	2	3	4	5	NA
m. International Game and Fish Association (IGFA).....	1	2	3	4	5	NA
n. Southern Kingfish Association (SKA).....	1	2	3	4	5	NA
o. Fishing Magazines/Newsletters.....	1	2	3	4	5	NA
p. SCUBA diving magazines/Newsletters.....	1	2	3	4	5	NA
q. Newspapers.....	1	2	3	4	5	NA
r. Radio.....	1	2	3	4	5	NA
s. Television.....	1	2	3	4	5	NA
t. Internet.....	1	2	3	4	5	NA
u. Social Media (Twitter, You Tube, Facebook, etc.).....	1	2	3	4	5	NA
v. Word of Mouth.....	1	2	3	4	5	NA
x. 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
_____	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

17. Do you know who sets policy/management for National Marine Sanctuaries and for fisheries in ocean and coastal areas?

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

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 IN GRNMS

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

19. On a scale of 1 to 5, where 1 means Better and 5 means Worse, please rate the . **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.**

RESOURCE	Getting Better					Getting Worse	
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	

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"/>

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.....	— — —	— — —

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 people out for a fee.**
- **Charter boats usually limit their number of passengers, but charge for the boat for a day.**
- **Party boats usually carry large numbers of people and charge by the head or person and are sometimes called head-boats.**

ACTIVITY	Days Private Boat	Days Charter Boat	Days Party 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.

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 |

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.**

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

	Not at all Important				Extremely Important
a. Reason for engaging in primary activity.....	1	2	3	4	5
b. To be outdoors.....	1	2	3	4	5
c. For family recreation.....	1	2	3	4	5
d. To experience new and different things.....	1	2	3	4	5
e. For relaxation.....	1	2	3	4	5
f. To be close to the water.....	1	2	3	4	5
g. To get away from the demands of other people.....	1	2	3	4	5
h. To be with friends.....	1	2	3	4	5
i. To develop my skills.....	1	2	3	4	5
j. To get away from the regular routine.....	1	2	3	4	5
k. To experience adventure and excitement.....	1	2	3	4	5
l. To experience natural surroundings.....	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 Maximum Value, to what extent do you value each good or service? **Please circle the number for your answer.**

	No Value				Maximum Value
Good or Service					
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 sustainably and available for future generations to enjoy? **Please circle the number for your answer.**

Activity or Action	Would Not Do				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.