

**BISCAYNE NATIONAL PARK  
FISHING QUESTIONNAIRE**



***East Carolina University  
Human Dimensions of Marine and Coastal Ecosystems  
Institute for Coastal Science and Policy  
Greenville, NC***

*Note: The text in the shaded boxes below will not be included in the survey (the visitors will not read this as a part of the survey process). This text is used to annotate the questions in response to Part A question 2 of the PRA Supporting Statement*

***In the following questions, please tell us about your use history of Biscayne National Park.***

***[Park Use History] – in this section we would like to understand how people use BISC and how those use levels have changed over time. A map will be provided that will depict the geographical boundaries of BISC. The respondent will be asked to refer to the map to answer Q1; 26-28***

1. **Please look at the enclosed map and examine the boundaries of Biscayne National Park. On your most recent trip to the park, were you aware you were entering Biscayne National Park?**
  - 1 Yes
  - 2 No
  
2. **In which year did you make your first visit to Biscayne National Park?**  
\_\_\_\_ Year
  
3. **Over the past twelve months, how many visits have you made to Biscayne National Park?**  
\_\_\_\_ Number of Visits
  
4. **On your most recent visit to Biscayne National Park, how many people, including yourself, were in your party?**  
\_\_\_\_ Number of People
  
5. **On the day of your most recent visit to Biscayne National Park, how many miles did you travel to the marina/dock/boat ramp?**  
\_\_\_\_ Miles
  
6. **Since your first visit to Biscayne National Park, how has your annual visitation rate to Biscayne National Park changed over time? (Please circle one response)**
  - 1 Far fewer visits
  - 2 Fewer visits
  - 3 Remained about the same
  - 4 More visits
  - 5 Many more visits
  - 6 This is my first visit to Biscayne National Park
  
7. **How familiar are you with the Biscayne National Park Boundaries?**
  - 1 Not at all familiar
  - 2 Somewhat familiar
  - 3 Moderately familiar
  - 4 Very familiar
  - 5 Extremely familiar

*[Activity Information and History] – in this section we would like to understand the level of participation in fishing and motivations for fishing as an overall activity. Specialization theory is incorporated into these questions to allow the respondent population to be segmented into meaningful subgroups for analysis. The exact wording for Questions 14-18 was used in an OMB approved, NOAA sponsored survey effort in the Florida Keys in 2008 (OMB # 0648-0572)*

***In the following questions, please tell us about your saltwater fishing experience, in general.***

**8. What skill level angler would you consider yourself to be? (Please circle one).**

- 1 Beginner
- 2 Novice
- 3 Intermediate
- 4 Advanced
- 5 Expert

**9. If you had to replace the fishing equipment that you currently own with similar equipment of similar value, how much would it cost to replace? (Include only equipment that is directly used during saltwater fishing; exclude supplemental items like boats, trailers, etc.)**

\$\_\_\_\_\_ Amount to replace saltwater fishing equipment

**10. Over the past twelve months, how many days did you participate in saltwater fishing, in any location?**

\_\_\_\_\_ Number of Days

**11. Of all of the recreational activities you participate in, overall, what percentage of your recreation time during the past 12 months did you spend saltwater fishing?**

Percent of time saltwater fishing \_\_\_\_\_%

**12. How many years have you been fishing in saltwater?**

\_\_\_\_\_ Years

**13. Below is a list of seven factors that can contribute to a successful fishing experience. Please rank the factors in order of importance (1 being the most important, 7 being the least important). If an item is not important at all, please enter "0".**

- | Rank  | Factor  |
|-------|---|
| _____ | Size of fish caught                                       |
| _____ | Number of fish caught                                     |
| _____ | Type/species of fish caught                               |
| _____ | Number of legal sized fish you brought home               |
| _____ | Number of other fishermen encountered while fishing       |
| _____ | Boat ramp/launching conditions (degree of crowding, etc.) |
| _____ | Other (Specify:_____)                                     |

**14. Below is a list of reasons why people fish in saltwater in general. Please circle the number that indicates how important each item is to you as a reason for going saltwater fishing. (Please circle one number for each of the following items)**

	<i>Not at all important</i>	<i>Slightly important</i>	<i>Moderately important</i>	<i>Very important</i>	<i>Extremely important</i>
a. For family recreation.....	1	2	3	4	5
b. To be outdoors.....	1	2	3	4	5
c. For relaxation.....	1	2	3	4	5
d. To experience new and different things.....	1	2	3	4	5
e. To obtain fish for eating, not for sport.....	1	2	3	4	5
f. To get away from the demands of other people.....	1	2	3	4	5
g. For the experience of the catch.....	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 catch a trophy fish.....	1	2	3	4	5
l. For the challenge of the catch.....	1	2	3	4	5
m. For the sport of fishing, not to obtain food to eat.....	1	2	3	4	5
n. For the fun of catching fish.....	1	2	3	4	5
o. To experience excitement.....	1	2	3	4	5
p. To experience natural surroundings.....	1	2	3	4	5
q. For solitude.....	1	2	3	4	5

**15. When I participate in saltwater fishing, I feel like:**

- 1 a beginner. I don't really feel like I am part of the saltwater fishing scene.
- 2 an occasional or irregular participant in the saltwater fishing. Sometimes it is fun, entertaining or rewarding to fish in saltwater.
- 3 a habitual and regular participant in the saltwater fishing.
- 4 an insider to the sport. Saltwater fishing is an important part of who I am.

**16. When saltwater fishing, I can best be described as:**

- 1 having little understanding of saltwater fishing. I am often unsure about how to do certain things when I go.
- 2 having some understanding of saltwater fishing, but still in the process of learning more about the sport. I am becoming more familiar and comfortable with the saltwater fishing.
- 3 being comfortable with saltwater fishing. I have a good understanding of what I can do, and how to do it.
- 4 a knowledgeable expert in the sport. I encourage, teach and enhance opportunities for others who are interested in saltwater fishing.

**17. My relationships with others who fish in saltwater are:**

- 1 not established. I really don't know any other people who fish in saltwater.
- 2 very limited. I know some others in saltwater fishing by sight and sometimes talk with them, but I don't know their names.
- 3 one of familiarity. I know the names of others who fish in saltwater, and often speak with them.
- 4 close. I have personal and close relationships with others in saltwater fishing. These friendships often revolve around saltwater fishing.

**18. My commitment to saltwater fishing is:**

- 1 very slight. I have very little connection to the saltwater fishing. I may or may not continue to participate in the sport in the future.
- 2 moderate. I will continue to fish in saltwater as long as it is entertaining and provides the benefits I want.
- 3 fairly strong. I have a sense of being a member in the saltwater fishing community, and it is likely that I will continue to do it for a long time.
- 4 very strong. I am totally committed to saltwater fishing. I encourage others to participate in the sport and seek to ensure the activity continues into the future.

***Although you may fish in a variety of different locations, in the following questions we are specifically interested in your saltwater fishing experience in Biscayne National Park.***

***[Activity Information and History] – in this section we would like to understand the respondent's fishing experience with specific reference to BISC. The exact wording for Question 23 was in the OMB # 0648-0572 collection. Substitution theory is included in this questions to try and understand displacement of users***

**19. How many hears have you been saltwater fishing in Biscayne National Park? (In adding up the total number of years, please exclude years that you did not go fishing in Biscayne National Park.)**

\_\_\_ Years

**20. Please list the three species of fish you typically fish for when fishing inside Biscayne National Park.**

\_\_\_\_\_

**21. Please list the three species of fish you prefer to catch when fishing inside Biscayne National Park.**

\_\_\_\_\_

**22. Consider your most recent saltwater fishing trip to Biscayne National Park. Overall, how satisfied were you with this experience?**

- 1 Not at all satisfied
- 2 Somewhat satisfied
- 3 Moderately satisfied
- 4 Very satisfied
- 5 Extremely satisfied

**23. To what extent do you make use of the following for current information about saltwater fishing in Biscayne National Park?**

	<i>No use at all</i>	<i>Almost no use</i>	<i>A little use</i>	<i>Some use</i>	<i>A lot of use</i>
a. Talking with other anglers.....	1	2	3	4	5
b. Recreational fishing 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. Bait and tackle shops/companies.....	1	2	3	4	5
g. Club meetings.....	1	2	3	4	5
h. Television.....	1	2	3	4	5
i. Radio.....	1	2	3	4	5
j. Online/internet resources.....	1	2	3	4	5
k. Talking with park personnel.....	1	2	3	4	5
l. Participating in an interpretive activity led by park personnel.....	1	2	3	4	5
m. Visiting an information/interpretive center.....	1	2	3	4	5
n. Fisheries Awareness Program.....	1	2	3	4	5

**24. Below is a list of information sources you may have used to gather information about saltwater fishing in Biscayne National Park. Please tell us how useful each source you used was. If you didn't use a source, select "not applicable"(n/a).**

	<i>Not at all useful</i>	<i>Slightly useful</i>	<i>Moderately useful</i>	<i>Very useful</i>	<i>Extremely useful</i>	<i>Not applicable</i>
a. Talking with other anglers.....	1	2	3	4	5	n/a
b. Recreational fishing magazines.....	1	2	3	4	5	n/a
c. Government agency publications.....	1	2	3	4	5	n/a
d. Conservation organization Publications.....	1	2	3	4	5	n/a
e. Newspapers.....	1	2	3	4	5	n/a
f. Bait and tackle shops/companies.....	1	2	3	4	5	n/a
g. Club meetings.....	1	2	3	4	5	n/a
h. Television.....	1	2	3	4	5	n/a
i. Radio.....	1	2	3	4	5	n/a
j. Online/internet resources.....	1	2	3	4	5	n/a
k. Talking with park personnel.....	1	2	3	4	5	n/a
l. Participating in interpretive activities led by park personnel... 1	2	3	4	5	n/a	
m. Visiting an information/interpretive center.....	1	2	3	4	5	n/a
n. Fisheries Awareness Program.....	1	2	3	4	5	n/a

25. Is there sufficient information about the areas in Biscayne National Park about where you can fish?

- 1 Yes
- 2 No

*In this section, we would like to know more about the locations where you typically fish in Biscayne National Park in which you fish. Please use the enclosed map of Biscayne National Park when answering these questions.*

26. Over the past twelve months, how many days did you fish in each of the following zones?

- Zone A \_\_\_\_\_ # of Days
- Zone B \_\_\_\_\_ # of Days
- Zone C \_\_\_\_\_ # of Days
- Zone D \_\_\_\_\_ # of Days

27. Which zone is your most preferable fishing location?

\_\_\_\_\_ Zone

28. If you could not fish in your preferred area, are there any other zones in Biscayne National Park that offer a similar fishing experience?

- 1 Yes, If Yes, which zone(s) \_\_\_\_\_
- 2 No, If No, why not? \_\_\_\_\_

29. Consider all of the days you fished in Biscayne National Park in the past twelve months. Please rate your satisfaction level with these days of fishing, by zone. If you did not use a zone in the past twelve months, please select "not applicable"(n/a).

		Not at all satisfied	Slightly satisfied	Moderately satisfied	Very satisfied	Extremely satisfied	Not applicable
a.	Zone A.....	1	2	3	4	5	n/a
b.	Zone B.....	1	2	3	4	5	n/a
c.	Zone C.....	1	2	3	4	5	n/a
d.	Zone D.....	1	2	3	4	5	n/a

*[Crowding and visitor behavior norms] – in this section we would like to understand the level of crowding that is acceptable, as well as types of acceptable behavior during a visit to BISC. Normative theory is incorporated into these questions to allow acceptability analysis to be conducted. Questions 30-33 and 36-37 are replicates of questions used on other survey instruments in the Florida Keys. Maintaining the same language will ensure comparability across data collections.*

***In the following questions you will be presented with several saltwater fishing scenarios. Your responses should be based on a typical saltwater fishing trip to your most preferred zone (from Question 27, page 7) in Biscayne National Park.***

**30. During a trip to your most preferred zone (from Question 27, above) in Biscayne National Park, what is the maximum number of each of the following you find acceptable to see at any one moment?**

- a. maximum number of private fishing boats ..... \_\_\_\_ boats
- b. maximum number of commercial fishing boats ..... \_\_\_\_ boats
- c. maximum number of dive/snorkel boats (private or public).... \_\_\_\_ boats

**31. During your time actively saltwater fishing in Biscayne National Park, how acceptable is it for you to see the following number of recreational fishing boats at any one time while actively fishing? (Please circle one number for each of the following items).**

	<i>Extremely unacceptable</i>	<i>Moderately unacceptable</i>	<i>Slightly unacceptable</i>	<i>Not Sure</i>	<i>Slightly acceptable</i>	<i>Moderately acceptable</i>	<i>Extremely acceptable</i>
a. Zero recreational fishing boats.....	1	2	3	4	5	6	7
b. 5 recreational fishing boats.....	1	2	3	4	5	6	7
c. 10 recreational fishing boats.....	1	2	3	4	5	6	7
d. 15 recreational fishing boats.....	1	2	3	4	5	6	7
e. 20 recreational fishing boats.....	1	2	3	4	5	6	7
f. 25 recreational fishing boats.....	1	2	3	4	5	6	7
g. More than 25 recreational fishing boats.....	1	2	3	4	5	6	7

**32. During your time actively saltwater fishing in Biscayne National Park, how acceptable it is for you to see the following number of commercial fishing boats at any one time while actively fishing? (Please circle one number for each of the following items).**

	<i>Extremely unacceptable</i>	<i>Moderately unacceptable</i>	<i>Slightly unacceptable</i>	<i>Not Sure</i>	<i>Slightly acceptable</i>	<i>Moderately acceptable</i>	<i>Extremely acceptable</i>
a. Zero commercial fishing boats.....	1	2	3	4	5	6	7
b. 5 commercial fishing boats.....	1	2	3	4	5	6	7
c. 10 commercial fishing boats.....	1	2	3	4	5	6	7
d. 15 commercial fishing boats.....	1	2	3	4	5	6	7
e. 20 commercial fishing boats.....	1	2	3	4	5	6	7
f. 25 commercial fishing boats.....	1	2	3	4	5	6	7
g. More than 25 commercial fishing boats.....	1	2	3	4	5	6	7



33. During your time actively saltwater fishing in Biscayne National Park, how acceptable is it for you to see the following number of dive/snorkel boats at any one time while actively fishing? (Please circle one number for each of the following items).

	<i>Extremely unacceptable</i>	<i>Moderately unacceptable</i>	<i>Slightly unacceptable</i>	<i>Not Sure</i>	<i>Slightly acceptable</i>	<i>Moderately acceptable</i>	<i>Extremely acceptable</i>
a. Zero dive/snorkel boats.....	1	2	3	4	5	6	7
b. 5 dive/snorkel boats.....	1	2	3	4	5	6	7
c. 10 dive/snorkel boats.....	1	2	3	4	5	6	7
d. 15 dive/snorkel boats.....	1	2	3	4	5	6	7
e. 20 dive/snorkel boats.....	1	2	3	4	5	6	7
f. 25 dive/snorkel boats.....	1	2	3	4	5	6	7
g. More than 25 dive/snorkel boats.....	1	2	3	4	5	6	7

34. Please indicate the extent to which you believe all saltwater anglers have an obligation to either do or not do the following while fishing.

	<i>Strong obligation to never do</i>	<i>Moderate obligation to not do</i>	<i>Slight obligation to not do</i>	<i>No obligation either way</i>	<i>Slight obligation to do</i>	<i>Moderate obligation to do</i>	<i>Strong obligation to always do</i>
a. Contact coral reef with their fishing gear .....	1	2	3	4	5	6	7
b. Motor boats in shallow reef areas .....	1	2	3	4	5	6	7
c. Feed fish (includes chumming) .....	1	2	3	4	5	6	7
d. Retrieve floating garbage .....	1	2	3	4	5	6	7
e. Anchor on a reef.....	1	2	3	4	5	6	7
f. Motor boats at least 100 feet from dive flags.....	1	2	3	4	5	6	7
g. Throw back fish caught outside legal size limits .....	1	2	3	4	5	6	7
h. Keep fish caught in excess of bag limits.....	1	2	3	4	5	6	7
i. Motor close to fishing lines of other boats .....	1	2	3	4	5	6	7
j. Take fish or shellfish during a closed season .....	1	2	3	4	5	6	7
k. Take fish or shellfish from designated no take zones...	1	2	3	4	5	6	7
l. Venting the swim bladder on bottom fish.....	1	2	3	4	5	6	7
m. Use circle hooks.....	1	2	3	4	5	6	7
n. Not contribute to floating debris.....	1	2	3	4	5	6	7

35. Imagine that you did the following while fishing and others saw you. How embarrassed would you feel?

	Not at all embarrassed	Almost no embarrassment	Slightly embarrassed	Somewhat embarrassed	Moderately embarrassed	Very embarrassed	Extremely embarrassed
a. Contacted coral reef with their fishing gear.....	1	2	3	4	5	6	7
b. Motored boats in shallow reef areas .....	1	2	3	4	5	6	7
c. Fed fish (includes chumming).....	1	2	3	4	5	6	7
d. Retrieved floating garbage.....	1	2	3	4	5	6	7
e. Anchored on a reef.....	1	2	3	4	5	6	7
f. Motored boats at least 100 feet from dive flags.....	1	2	3	4	5	6	7
g. Threw back fish caught outside legal size limits.....	1	2	3	4	5	6	7
h. Kept fish caught in excess of bag limits .....	1	2	3	4	5	6	7
i. Motored close to fishing lines of other boats.....	1	2	3	4	5	6	7
j. Took fish or shellfish during a closed season .....	1	2	3	4	5	6	7
k. Took fish or shellfish from designated no take zones ...	1	2	3	4	5	6	7
l. Not venting the swim bladder on a bottom fish .....	1	2	3	4	5	6	7
m. Not using circle hooks.....	1	2	3	4	5	6	7
n. Contributed to floating debris.....	1	2	3	4	5	6	7

*In the following section, we are interested in learning more about your most recent visit to Biscayne National Park during which you went saltwater fishing. Please think of that experience while answering each question below.*

36. On your **most recent** saltwater fishing trip in Biscayne National Park, about how many other boats did you **expect** to see at **any one moment** while you were actively fishing.

\_\_\_\_ Number of fishing boats  I didn't know what to expect

\_\_\_\_ Number of dive/snorkel boats  I didn't know what to expect

37. On your **most recent** saltwater fishing trip in the Biscayne National Park, about how many other boats do you remember actually seeing at any one moment while you were actively fishing?

\_\_\_\_ Number of fishing boats

\_\_\_\_ Number of dive/snorkel boats

38. On the scale below, please indicate how crowded you felt while actively fishing during your most recent trip to Biscayne National Park. (Circle one number on the scale).

1	2	3	4	5	6	7	8	9
Not at all Crowded		Slightly Crowded		Moderately Crowded			Extremely Crowded	

*[Performance/satisfaction, expectations] – in this section we would like to understand the satisfaction with respondents' experience in BISC. Importance/satisfaction theory is incorporated into these questions to allow importance-performance analysis to be conducted.*

**39. How important was it to you to do each of the following on your most recent trip to Biscayne National Park?**

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
a. To experience easy fishing (catch) conditions .....	1	2	3	4	5
b. To catch large fish .....	1	2	3	4	5
c. To catch a large number of fish .....	1	2	3	4	5
d. To catch a certain species of fish .....	1	2	3	4	5
e. To experience natural surroundings .....	1	2	3	4	5
f. To develop my skills.....	1	2	3	4	5
g. To experience solitude.....	1	2	3	4	5
h. To interact with nature.....	1	2	3	4	5
i. To relax .....	1	2	3	4	5
j. To spend time with friends.....	1	2	3	4	5
k. To spend time with family.....	1	2	3	4	5
l. Adventure.....	1	2	3	4	5

**40. On your most recent fishing trip to Biscayne National Park, how many fish did you expect to catch per hour of fishing?**

\_\_\_\_\_ Number of fish per hour

**41. How satisfied were you with each of the following during your most recent saltwater fishing trip in Biscayne National Park?**

	Not at all satisfied	Slightly satisfied	Moderately satisfied	Very satisfied	Extremely satisfied
a. Experiencing easy fishing (catching) conditions .....	1	2	3	4	5
b. Catching large fish .....	1	2	3	4	5
c. Catching a large number of fish .....	1	2	3	4	5
d. Catching a certain species of fish .....	1	2	3	4	5
e. Experiencing natural surroundings .....	1	2	3	4	5
f. Developing my skills.....	1	2	3	4	5
g. Experiencing solitude .....	1	2	3	4	5
h. Interacting with nature .....	1	2	3	4	5
i. Relaxing .....	1	2	3	4	5
j. Spending time with friends .....	1	2	3	4	5
k. Spending time with family.....	1	2	3	4	5
l. Experiencing adventure.....	1	2	3	4	5

**42. On your most recent fishing trip to Biscayne National Park, to what extent did your actual catch meet your expectations for how many fish you caught?**

- 1 Far below my expectations
- 2 Below my expectations
- 3 Met my expectations
- 4 Above my expectations
- 5 Far above my expectations

*[Perceptions of resource conditions] – in this section we would like to understand knowledge, attitudes and perceptions of environmental conditions within BISC. Attribution theory is incorporated into these questions to better understand conflict dynamics*

**43. Please indicate the extent to which you agree or disagree with the following statements about fish populations.**

	Strongly disagree	Slightly disagree	Neutral	Slightly agree	Strongly agree
a. Fish populations in Biscayne National park are able to easily recover from any impacts from <u>diving/snorkeling</u> without any long-term damage .....	1	2	3	4	5
b. Fish populations in Biscayne National Park are able to easily recover from any impacts from <u>commercial fishing</u> without any long-term damage .....	1	2	3	4	5
c. Fish populations in Biscayne National Park are able to easily recover from any impacts from <u>recreational fishing</u> without any long-term damage .....	1	2	3	4	5
d. Fish populations in Biscayne National Park are able to easily recover from any impacts from <u>spearfishing</u> without any long-term damage .....	1	2	3	4	5
e. <u>Fish populations</u> in Biscayne National Park are generally in a healthy condition.....	1	2	3	4	5
f. <u>Divers/snorkelers</u> cause some damage to fish populations in Biscayne National Park, which has long-lasting effects on fish populations.....	1	2	3	4	5
g. <u>Commercial fishermen</u> cause some damage to fish populations in Biscayne National Park, which has long-lasting effects fish populations .....	1	2	3	4	5
h. <u>Recreational anglers</u> cause some damage to fish populations in Biscayne National Park, which has long-lasting effects fish populations .....	1	2	3	4	5
i. <u>Spearfishermen</u> cause some damage to fish populations in Biscayne National Park, which has long-lasting effects fish populations .....	1	2	3	4	5
j. Biscayne National Park fish populations where I typically recreate are in a healthy condition .....	1	2	3	4	5

44. Below is a list of characteristics that you may notice on fishing trips. Consider your most recent saltwater fishing experience in Biscayne National Park and rate the quality of the following items.

	Extremely poor	Very poor	Poor	Average	Good	Very good	Excellent
a. Water clarity.....	1	2	3	4	5	6	7
b. Size of fish that can be caught .....	1	2	3	4	5	6	7
c. Variety of fish that can be caught.....	1	2	3	4	5	6	7
d. Number of fish that can be caught.....	1	2	3	4	5	6	7
e. Presence of my preferred species to catch.....	1	2	3	4	5	6	7
f. Presence of fishing debris (discarded line, lures, etc) ..	1	2	3	4	5	6	7

45. Overall, do you feel the following are having a positive or negative impact on the ecological health of marine resources in Biscayne National Park?

	Extremely negative impact	Moderately negative impact	Slightly negative impact	No positive or negative impact	Slightly positive impact	Moderately positive impact	Extremely positive impact
a. Water quality .....	1	2	3	5	4	6	7
b. SCUBA diving .....	1	2	3	5	4	6	7
c. Commercial fishing .....	1	2	3	5	4	6	7
d. Hurricanes .....	1	2	3	5	4	6	7
e. Snorkeling.....	1	2	3	5	4	6	7
f. Recreational fishing.....	1	2	3	5	4	6	7
g. Global climate change .....	1	2	3	5	4	6	7
h. Marine debris/trash .....	1	2	3	4	5	6	7

46. Overall, how would you rate the current health of fish populations in Biscayne National Park?

- 1 Very poor
- 2 Poor
- 3 Fair
- 4 Good
- 5 Very good

47. Do you feel that the current health of fish populations in Biscayne National Park is improving, declining or staying the same?

- 1 Declining substantially
- 2 Declining somewhat
- 3 Staying the same
- 4 Improving somewhat
- 5 Improving substantially

**48. Overall, how would you rate the current ecological health of Biscayne National Park?**

- 1 Very poor
- 2 Poor
- 3 Fair
- 4 Good
- 5 Very good

**49. Do you feel that the ecological health of Biscayne National Park is improving, declining or staying the same?**

- 1 Declining substantially
- 2 Declining somewhat
- 3 Staying the same
- 4 Improving somewhat
- 5 Improving substantially

**50. The following is a list of potential management actions for saltwater fisheries. Please indicate the extent to which you support or oppose each of these management actions.**

	<i>Strongly oppose</i>	<i>Slightly oppose</i>	<i>Neutral</i>	<i>Slightly support</i>	<i>Strongly support</i>
a. "No fishing" zones .....	1	2	3	4	5
b. Exclusion zones (can't enter the zone) .....	1	2	3	4	5
c. Fishing zones that are open to catch-and-release only .....	1	2	3	4	5
d. Seasonally restrict zones to limit take of spawning fish and shellfish .....	1	2	3	4	5
e. Release of fish and/or shellfish below a certain length (minimum size limit) .....	1	2	3	4	5
f. Release of fish and/or shellfish above a certain length (maximum size limit) .....	1	2	3	4	5
g. Releasing fish within a certain length range but keeping the fish below and above this range (slot limit) .....	1	2	3	4	5
h. Being able to keep only a certain number of fish you catch in a day (daily bag limit) .....	1	2	3	4	5
i. A species is restricted to catch and release only at all times (you cannot possess it) .....	1	2	3	4	5

**51. Have you ever heard of the Fisheries Awareness Program at Biscayne National Park?**

- 1 Yes (If Yes; go to Question 52, page 15)
- 2 No (If No; skip to Question 54, page 15 )

**52. Have you ever participated in the Fisheries Awareness Program at Biscayne National Park?**

- 1 Yes (If Yes; go to Question 53, below)
- 2 No (If No; skip to Question 54, below)

**53. How useful did you find the Fisheries Awareness Program at Biscayne National Park?**

- 1 Not at all useful
- 2 Somewhat useful
- 3 Moderately useful
- 4 Very useful
- 5 Extremely useful

***The following questions will help us improve our understanding of users of Biscayne National Park.  
The information you provide us will remain strictly anonymous. Your name will never be  
associated with your answers.***

***Demographics] – This information is needed to check the representativeness of our sample against the population. Variables such  
as age, gender and income are included since they are often good predictors of demand and visitation behavior.***

**54. What is your age?**

\_\_\_\_ Years

**55. Are you:**

- 1 Male
- 2 Female

**56. Which of the following do you consider yourself to be?**

- 1 *A permanent resident* of South Florida
- 2 *A seasonal resident* of South Florida (you reside in South Florida for less than half of the year)
- 3 *A non-resident* (visitor) to South Florida

**57. Would you classify yourself as Hispanic or Latino?**

- 1 Yes
- 2 No

**58. Which of the following is the primary language used to communicate in your household?**

- 1 English
- 2 Spanish
- 3 Creole
- 4 Other (Specify:\_\_\_\_\_)

**59. Which category best describes your race? (Please circle one).**

- 1 American Indian or Alaskan Native
- 2 Asian
- 3 Black or African American
- 4 Native Hawaiian or other Pacific Islander
- 5 White

**60. Which of the following categories best describes your annual household income?**

- |                       |                          |
|-----------------------|--------------------------|
| 1 Under \$5,000       | 9 \$40,000 - \$44,999    |
| 2 \$5,000 - \$9,999   | 10 \$45,000 - \$49,999   |
| 3 \$10,000 - \$14,999 | 11 \$50,000 - \$59,999   |
| 4 \$15,000 - \$19,999 | 12 \$60,000 - \$74,999   |
| 5 \$20,000 - \$24,999 | 13 \$75,000 - \$99,999   |
| 6 \$25,000 - \$29,999 | 14 \$100,000 - \$149,999 |
| 7 \$30,000 - \$34,999 | 15 \$150,000 or more     |
| 8 \$35,000 - \$39,999 |                          |

***Is there anything else about Biscayne National Park or this questionnaire you would like to share with us?***

---

---

---

---

---

---

---

---

***Your contribution to the effort is greatly appreciated. Please return your completed questionnaire in the postage-paid envelope as soon as possible. Thank you!***

***Please direct all inquiries to:***

**David K. Loomis  
Human Dimensions of Marine and Coastal Ecosystems  
Institute for Coastal Science and Policy  
East Carolina University  
Greenville, NC 27858-4353**

***Paperwork Reduction Act Statement:*** A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting burden for this collection of information is estimated to average 20 minutes per response, including time for reviewing instructions and responding to the questions associated with this collection. The obligation to respond to this collection is completely voluntary. Please send comments regarding the burden estimate or any other aspect of this collection of information, to the National Park Service Chief Information Officer, ADDRESS: Washington, DC 20210

*A report containing the results of this study will be available in 2012 at our website: [www.ecu.edu/hd](http://www.ecu.edu/hd)*