1. Project Needs and Results

Soufriere is a small town located on the south west coast of St. Lucia. The area is an established tourist destination and sustains an important artisanal fishery and has numerous local recreational areas. The Soufriere Marine Management Area (SMMA) is a marine park established to protect and conserve marine resources particularly the well-developed fringing coral reefs which is important to both the fishing and tourism sectors. Geographically, part of the SMMA also falls within the designated Pitons Management Area which is the only World Heritage Site in St. Lucia.

The SMMA was formally established by the Government of St. Lucia on July 1st, 1995 with technical assistance from the French following a series of stakeholder consultations and negotiations with an aim to conserve natural coastal and marine resources and facilitate sustainable use of the area. The Agreement to Manage the Soufriere Marine Management Area was reviewed in 1998 and again in 2003. In 2005, a ten year institutional review of the Soufriere Marine Management Association was conducted. Included in the review was a proposed socioeconomic monitoring to provide a baseline for future monitoring.

Awareness of the social and economic factors affecting the SMMA will allow the management staff to tailor management strategies to suit the current socioeconomic climate. This information gleaned from socioeconomic monitoring will also be used to demonstrate to the public and to policy makers the importance of protecting the coastal and marine environment and garner support for revising and implementing new management policies.

2. Project activities

1. Stakeholder Consultation: The first phase of the project involved sensitization of relevant stakeholders to the objectives of the project. A workshop was held on 30 January 2007 to discuss the objectives and form an assessment team. A total of nineteen (19) participants attended this workshop and all persons gave the project their full support.

2. Data collection through secondary sources: Reports from previous institutional reviews and projects with a socioeconomic component were compiled and used as references.

3. Data collection through surveys: Through a collaborative process involving staff from the SMMA, Department of Fisheries (DOF) and Central Statistics Office (CSO) a comprehensive survey instrument was developed. A total of 200 surveys were conducted on various users of the coastal and marine environment encompassing the SMMA. The users were subdivided into the following groups: Households within the Soufriere community (120), Fishermen (40), Divers/Snorkellers (17), Hotels and Small Business Owners/Managers (8) and Boatmen (15) were surveyed (Table 1.).
Table 1. Sample size of SMMA users

<table>
<thead>
<tr>
<th>Group</th>
<th>Population</th>
<th>Sample %</th>
<th>Sample size</th>
<th>Response %</th>
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<tbody>
<tr>
<td>Households</td>
<td>4872</td>
<td>2.5%</td>
<td>120</td>
<td>100</td>
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<tr>
<td>Dive Operators</td>
<td>13</td>
<td>100%</td>
<td>13</td>
<td>92</td>
</tr>
<tr>
<td>Tour Operators</td>
<td>11</td>
<td>30%</td>
<td>4</td>
<td>50</td>
</tr>
<tr>
<td>Yachtsmen</td>
<td>24</td>
<td>30%</td>
<td>7</td>
<td>29</td>
</tr>
<tr>
<td>Fishermen</td>
<td>166</td>
<td>25%</td>
<td>40</td>
<td>88</td>
</tr>
<tr>
<td>Water Taxi Operators/boat boys</td>
<td>26</td>
<td>30%</td>
<td>8</td>
<td>100</td>
</tr>
<tr>
<td>Hotels</td>
<td>4</td>
<td>100%</td>
<td>4</td>
<td>175</td>
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<tr>
<td>Restaurants/Small Businesses</td>
<td>11</td>
<td>30%</td>
<td>4</td>
<td>125</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>5127</strong></td>
<td><strong>3.9%</strong></td>
<td><strong>200</strong></td>
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</table>

Five enumerators were trained and sent out in the field for data collection from 25 July – 15 August 2007. Data entry into a database developed by the SMMA Project Officer commenced on August 21. This data will be imported into a dedicated statistical program (SPSS) for detailed analysis at the Central Statistics Office.

4. A workshop is being planned for presentation of the project report and is scheduled for October 15, 2007.

3. **Project outputs**

List the actual outputs produced under the following headings (Please tick appropriate box)

- A number of participants at the workshop generally agreed that SMMA has strayed away from its objectives and mandate as outlined in the SMMA Agreement. As such, a consensus was reached on the need to redefine or adapt the Agreement objectives.
- Perceptions varied as to the level of awareness of the Soufriere populace of the objectives and role of SMMA.

(a) **WORKSHOP**

**Title:** Stakeholder Consultation on Socioeconomic Assessment of the Soufriere Marine Management Association

**Venue and dates:** Soufriere Regional Development Foundation Conference Room 30 January 2007

**Convened by:** SMMA  
**Organized by:** Nadia Cazaubon

**Report issued as doc. No/Symbol:** Languages Dated __________

For Training Seminar/Workshop, please indicate: No. of participants **19** and attach **annex** giving names and nationalities of participants.
(b) MEETING

Title: Survey Instrument Development Meeting
Venue and dates: Sustainable Development conference room 22 March 2007
Department of Fisheries conference room 10 May 2007
Convened by SMMA Organized by Nadia Cazaubon
Report issued as doc. No/Symbol Languages: English Dated
For Training Seminar/Workshop, please indicate: No. of participants and attach annex giving names and nationalities of participants.

(b) PRINTED MATERIALS

Title: Socioeconomic Survey Instrument
Author(s)/Editor(s) Nadia Cazaubon, Dawn Pierre-Nathoniel, Laverne Walker, Sarita Williams-Peter, Euphemia Edmund
Publisher N/A
Symbol (UN/UNEP/ISBN/ISSN)
Date of publication
(When technical reports/publications have been distributed, attach distribution list)

(c) ☒ TECHNICAL INFORMATION ☐ PUBLIC INFORMATION

Description The original completion date for this project was slated for 15 March 2006. An extension was granted for March 2007. Due to the delay in disbursement of funds, a request was made for a further extension.
A series of technical meetings were held to determine the target population and develop the survey instrument. Consultations were held with representatives from the Department of Fisheries, Coastal Zone Management Unit and Central Statistics Office. A pilot survey was conducted and the survey has been finalized and is ready for field data collection.
A training workshop was held for all enumerators prior to data collection. Sample surveys were used to troubleshoot a database developed by the Project Officer with assistance from the Central Statistics Office. Data collected was compiled in a well organized database and will be exported to a dedicated statistical program, SPSS for analysis. The expertise of a statistician will be required for detailed statistical analyses.

Dates

3
(d) TECHNICAL COOPERATION

- [ ] Attachments
- [x] Advisory Services
- [ ] Staff Missions
- [ ] Others (describe)

**Purpose**
An economist has been identified for consultation in the data analysis phase of this project. Budgetary allowances have been adjusted to procure this service.

**Place and duration**
______________________________________________________________

<table>
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<tr>
<th>Beneficiaries</th>
<th>Countries/Nationalities</th>
<th>Cost (in US$)</th>
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(f) OTHER OUTPUTS/SERVICES

For example, Networking, Query-response, Participation in meetings etc.

______________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

__________________________________________________________________

4. **Use of outputs**

The socioeconomic data gathered from this project will be utilized to direct or redirect management strategies to achieve the organization’s mandate. Since the inception of the organization, some of the issues affecting the Soufriere Marine Management Area have been solved, others have evolved and new issues are still emerging.

In keeping with specific objective 1 of this project, data has been collected and we now have a better understanding of the perception of various community groups on the performance of SMMA in the past ten years. While various user groups are more au courant with the work and role of SMMA within the community, preliminary data shows there is a stark difference in the level of awareness of the existence of SMMA and its work between coastal and inland residents. There was an overwhelming call for SMMA to undertake more education and sensitization and to participate in community activities.

These results will be presented in the project report to the SMMA Board of Directors and to the following organizations: UNEP-CAR/RCU, Department of Fisheries, Department of Statistics, Coastal Zone Management Unit, St. Lucia Hotel and Tourism Association, Soufriere Regional Development Foundation and the Pitons Management Area and all interested stakeholders. The report will also be made available online on the SMMA website.

5. **Degree of achievement of the objectives/results**

The survey instrument which was developed was instrumental in gathering information on the perception of the public on various aspects of the Soufriere Marine Management Association. Pending further analysis, the preliminary results indicate that 90% of respondents are aware of the SMMA thus by extension, the majority of the Soufriere populace. All users of the SMMA with the exception of the households were aware of SMMA activities. Among the households, the Fond St. Jacques community was the least aware of the SMMA and coincidentally almost all of these respondents commented on the lack of education and information dissemination by SMMA to that community. Preliminary results also indicate a general consensus that the
quality/quantity and health of coral reef, fish, beaches and water quality is declining. From this it is obvious that the SMMA Communication Plan needs to be revisited and monitoring needs to be continued and the results communicated to the general public. The importance of sensitizing the public to the importance and value of our natural resources is paramount for the sustainability of these resources.

A more detailed analysis of the results of the survey will be included in the project report document. A copy of this document will be forwarded to UNEP-CAR/RCU for review.

6. **Conclusions**

This project was conceptualized by the manager of the SMMA following a Socioeconomic workshop held in Soufriere in 2005. The project was started in January 2007 after a Project Officer was appointed but had not attended the aforementioned socioeconomic workshop. A survey instrument was developed through governmental and organizational collaboration. Data collection was delayed till funding was made available in July 2007. In hindsight, data collection should have continued as scheduled once funding had been guaranteed.

During this period, two databases were developed simultaneously utilizing MS Access and MS Excel. Data entry and queries will be done in Access and the tables exported to Excel and SPSS for statistical analysis and creation of charts. Although the Excel database was easier to develop, data entry proved tedious due to program limitations in the number of fields that can be displayed in the form. The Access database posed an array of problems that were finally resolved and the database was made user friendly.

With only one individual for data entry the data entry period was extended due to the length of the questionnaire and the number of records to be entered. Another key lesson reiterated is the need to develop a habit of saving data after entering each record after numerous records were lost after two instances of power failure following the passage of Hurricane Dean.

7. **Recommendations**

(a) Future in depth reviews of the SMMA should ideally be conducted by a private consultant or a government watchdog agency to obtain unbiased data from all stakeholders including staff of SMMA. Subsequent reviews should also be undertaken periodically every five years with a short survey and more comprehensive survey should be done every ten years.

(b) The direction the stakeholders wanted to take this project to was too broad for a project of this size.

8. **Non-expendable equipment**

None
Soufriere Marine Management Association  
Socioeconomic Monitoring - Stakeholder Consultation

Venue: Soufriere Regional Development Foundation conference room

Date: 30 January 2007

List of Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
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</thead>
<tbody>
<tr>
<td>1. Kai Wulf</td>
<td>SMMA</td>
</tr>
<tr>
<td>2. Nadia Cazaubon</td>
<td>SMMA</td>
</tr>
<tr>
<td>3. Hazelann Prospere</td>
<td>SMMA</td>
</tr>
<tr>
<td>4. Jacqueline Allain-Francois</td>
<td>Ministry of Social Transformation – Community Development Officer</td>
</tr>
<tr>
<td>5. Harold Andrew</td>
<td>Ministry of Health</td>
</tr>
<tr>
<td>6. Bernard Saltibus</td>
<td>Soufriere Water Taxi Association</td>
</tr>
<tr>
<td>7. Joan Alexander-Stowe</td>
<td>Hummingbird Beach Resort</td>
</tr>
<tr>
<td>8. Alexander D’Auvergne</td>
<td>Soufriere Fishermens’ Cooperative</td>
</tr>
<tr>
<td>9. Sarita Williams-Peter</td>
<td>Department of Fisheries</td>
</tr>
<tr>
<td>10. Daniel Medar</td>
<td>Department of Fisheries</td>
</tr>
<tr>
<td>11. Cornelius Isaac</td>
<td>Forestry Department</td>
</tr>
<tr>
<td>12. Henix Joseph</td>
<td>Pitons Management Area</td>
</tr>
<tr>
<td>13. Sarah George</td>
<td>OECS/ESDU</td>
</tr>
<tr>
<td>14. Darnell Bobb</td>
<td>Soufriere Regional Development Foundation</td>
</tr>
<tr>
<td>15. Donovan Brown</td>
<td>St. Lucia Dive Association</td>
</tr>
<tr>
<td>16. Sylvester Clauzel</td>
<td>Private</td>
</tr>
<tr>
<td>17. Augustin Sampson</td>
<td>Royal St. Lucia Police Force – Soufriere Station</td>
</tr>
<tr>
<td>18. Benny Adjodha</td>
<td>Harmony Restaurant</td>
</tr>
<tr>
<td>19. Peter Jackson</td>
<td>Private</td>
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</tbody>
</table>
All relevant sections must be completed. The name of the “Group” at the top of the questionnaire is critical, that is, coastal resident, fisherman, diver, snorkeller, yachtsman, water taxi operator, hotelier, restaurateur, small business owner, etc. Sections A to F and K must be answered by all respondents. Sections G to J must be answered only by the specific group indicated.

A. GENERAL

1. How old are you?
   15 – 19 yrs ____ 20 – 29 yrs ____ 30 – 39 yrs ____ 40 – 49 yrs ____
   50 – 59 yrs ____ 60 – 69 yrs ____ 70 + yrs ____ Not Stated ____

2. Gender?
   Male ______ Female _____

3. Where do you live?
   Soufriere ______ Other district (Please specify) __________________________

B. PERCEPTION ON GOALS AND OBJECTIVES

4. a) Have you heard about the Soufriere Marine Management Area (SMMA[NC2])?
   Yes _________ No __________

   b) If yes, why do you think that the SMMA was set up or what do you think is its role or objective?

   ____________________________________________________________________
   ____________________________________________________________________
5. Who do you think is responsible for maintaining the health of the marine environment (coral reef, fish, beaches, water quality, etc) in and around the SMMA? *Tick all that are named. Do not prompt*

- Government of Saint. Lucia
- Department of Fisheries
- SMMA
- Soufriere Foundation
- Soufriere Community
- Town Council
- Environmental Health
- Other

6. What do you perceive as the role of the SMMA Rangers?

_______________________________________________________________________________

7. What do you perceive as the role of the SMMA Manager?

_______________________________________________________________________________

8. What do you perceive as the role of the Board of Directors?

_______________________________________________________________________________

9. a) In your opinion, has the SMMA done anything for the Soufriere community that is noteworthy or that has worked well?

   Yes_________ No_________

b) If yes, what has the SMMA done for the Soufriere community that is noteworthy or that has worked well?

_______________________________________________________________________________

10. a) In your opinion, is the SMMA contributing sufficiently to the Soufriere community?

    Yes_________ No_________

b) If no, how can the SMMA play a more significant role in the community?

_______________________________________________________________________________
11. Do you think the SMMA is doing more than it should in the community?

Yes __________ No ____________
Explain _________________________________________________________________________

C. AWARENESS

The Resource

12. a) Are you familiar with the SMMA zones? Yes __________ No ____________

   b) If yes, name two of these zones. ___________________________ and ______________________

13. a) Are the zones you named important to the Soufriere community?

   Yes __________ No ____________

   b) If yes, how do the named zones contribute to the Soufriere community

   _______________________________________________________________________________
   _______________________________________________________________________________

14. How would you describe the condition/health of the following coastal resources (beaches, coral reef, fish, water quality) in the SMMA?

   Scale  (5) Excellent (4) Good (3) Average (2) Poor (1) Don’t Know

<table>
<thead>
<tr>
<th></th>
<th>10 Years Ago</th>
<th>Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beaches</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
15. What activities do you think negatively affect marine resources (coral reef, fish, water quality, beaches) within the SMMA? *Tick all that are named. Do not prompt*

- Poor fertilizer and pesticide application
- Poor sewage disposal
- Runoff from land/sedimentation
- Yachting and anchor damage
- Diving
- Litter
- Poor planning
- Over fishing and/or destructive fishing practices
- Other *(Please specify)*

16. From among the answers provided, which activity would you say has had the greatest negative impact on SMMA resources (coral reef, fish, water quality, beaches)? *(Record all detail provided)*

_______________________________________________________________________________

17. a) Do you think that the degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community in any way?

   Yes ___________  No ___________

b) If yes, how do you think that degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community? *(Record all detail provided)*

_______________________________________________________________________________

18. What do you think that the SMMA can do to improve the health and better manage the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

_______________________________________________________________________________

_______________________________________________________________________________
19. What do you think that you can do to improve the health of the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

_______________________________________________________________________________
_______________________________________________________________________________

Enforcement

20. Are you familiar with the rules and regulations that govern the use of the SMMA?

Very Familiar _____ Somewhat Familiar _____ Not Familiar _____ Don’t Know _____

21. Name one of the rules/regulations that govern the SMMA.

_______________________________________________________________________________

22. To whom do all the rules and regulations governing the SMMA apply? (N.B. not only the one named above) Tick all that are named. Do not prompt

Fisherman _____ Divers _____ Snorkellers _____ Yachtsmen _____
Tourists _____ Locals _____ Everyone _____ Don’t know _____

23. a) Are there any ongoing conflicts between resource users?

Yes _____ No _____ Don’t Know _____ Not Sure _____

b) If yes, what is the most significant conflict that is ongoing and where is it occurring?

Conflict ______________________________________

Area _______________________________________

24. Do you have any recommendations for how this conflict can be resolved?

_______________________________________________________________________________

_______________________________________________________________________________
D. LIVELIHOODS AND ECONOMY

25. What activities are you and family members engaged in that contribute to the household’s income?

<table>
<thead>
<tr>
<th>Activity</th>
<th>Rank</th>
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26. a) Has the establishment of the SMMA affected (positively or negatively) your income?

Yes____  No____

b) If yes, how has the establishment of the SMMA affected your income?

Increased ________  Decreased ________

27. Why do you think that tourists come to Soufriere? (Tick all that apply. Do not prompt)

- Diving and/or Snorkelling _____
- Yachting/sailing ______
- Honey Moon ______
- Pitons/World Heritage Site ______
- Sulphur Springs and/or Botanical Gardens ______
- Sites and attractions ______
- Other (Please specify)________________________

28. a) Has tourism in Soufriere influenced (positively or negatively) your life?

Yes____  No____

b) If yes, how has tourism in Soufriere influenced your life?

Positively _____  Negatively _____
29. Would you like to see tourism develop further in Soufriere?
   Yes _______   No _______
   Why? ____________________________________________________________

30. What other economic (money making) activities would you like to see develop in Soufriere?
   _______________________________________________________________________
   _______________________________________________________________________

31. Do you think that the SMMA can contribute more significantly to your livelihood?
   Yes _______   No _______

32. If yes, how do you think that the SMMA can contribute meaningfully to your livelihood?
   _______________________________________________________________________

E. FUTURE MONITORING

The Resource

33. Are you aware of any monitoring activities that the SMMA is doing to check on the health of the coastal resources (beaches, coral reef, fish, water quality)?
   Yes_________   No____________

34. If yes, name one monitoring activity that the SMMA is doing to check on the health of the coastal resources (coral reef, fish, water quality, beaches)?
   _______________________________________________________________________

35. a) Do you see a role for yourself in assisting the SMMA with monitoring?
   Yes_________   No____________

   b) If yes, what role do you think that you can play to assist the SMMA with monitoring?
   _______________________________________________________________________
Enforcement

36. a) Do you think that the rules and regulations that govern the SMMA are fair and just?
   Yes_____ No______

   b) To what extent do you think that people comply (voluntarily) with these rules and regulations?
   Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

37. In your opinion, to what extent are the rules and regulations that govern the SMMA enforced (by Rangers, Police, Department of Fisheries)?
   Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

38. Who do you think mostly breaks the rules and regulations that govern the SMMA? Tick the one that is named. Do not prompt
   Soufriere fishermen _______ Fishermen from other communities _______
   Divers/Snorkellers _______ Yachtsmen _______ Coastal residents from Soufriere _______
   Other (Please specify)_____________________________________________

48. Why do you think people break the rules and regulations governing the SMMA?
   ______________________________________________________________________

50. Do you feel comfortable reporting someone to the authorities (SMMA Rangers, Department of Fisheries, District Police, Marine Police) who has broken the rules and regulations governing the SMMA?

   SMMA Rangers _____Yes _____No  Why?_______________________________
   Department of Fisheries _____Yes _____No  Why?_______________________________
   District Police _____Yes _____No  Why?_______________________________
   Marine Police _____Yes _____No  Why?_______________________________
51. How do you think that a person who breaks the rules and regulations that govern the SMMA should be punished? *Tick all that are named. Do not prompt*

No punishment _______ Depends on the offence _____ Released with warning _____
Pay a fine _____ Banned from SMMA _____ Confiscate gear/equipment _____
Put in jail _____ Other *(Please specify)* ________________________________

52. Do you think that it is best for the SMMA Rangers to originate (come from) and reside (live) in the Soufriere community or elsewhere? *Tick one*

Soufriere community ____ Other community _____ Does not matter _____

Why ____________________________________________________________________

53. What do you think that the SMMA can do to encourage people to comply (follow) with the rules and regulations governing the SMMA?

Recognition (Awards) _______ Incentives (training and gear) __________
Better sensitization _______ Contribute to community activities _______
Other ____________________________

54. What do you think that the SMMA can do to improve enforcement within the SMMA?

Longer sentences ___________ Heftier fines ____________
More rangers _____________ Marine Police base in Soufriere ____________
Other ________________________________

55. What do you think that you can do to assist with the improvement of compliance and enforcement in the SMMA? *[following rules and regulations and punishing those who break them]*

________________________________________________________________________________
F. PERCEPTIONS ON PERFORMANCE

56. In your opinion, do you think that the SMMA is achieving its objectives?
   Yes _____  No _____  Somewhat _____  Don’t know _____

57. Do you think that the SMMA has improved marine resources, it’s uses and activities? (beaches, coral reef, fish, water quality)
   Marine Resources: Yes ____  No _____
   How? __________________________________________________________________________
   Marine uses and activities: Yes ____  No _____
   How? __________________________________________________________________________

58. In your opinion, how effective are the SMMA Rangers in conducting their duties?
   Very effective ____  Somewhat effective ____  Not effective ____  Don’t know ____

59. In your opinion, how effective is the SMMA Manager in conducting his duties?
   Very effective ____  Somewhat effective ____  Not effective ____  Don’t know ____

60. Do you think that the SMMA has an adequate number of rangers and equipment to effectively carry out its tasks?
   Rangers: Yes _______  No _______  Don’t know _______
   Equipment: Yes _______  No _______  Don’t know _______

61. How effectively do you think that the SMMA is being managed?
   Very effectively ____  Somewhat effectively ____  Not effectively ____  Don’t know ____

G. FISHERMEN

63. In what type of fishing are you engaged? Tick all that are named. Do not prompt
   Pot ____  Line ____  Seine ____  Deep sea ____  Other (Please specify)______
64. What equipment/gear do you own? Please prompt
   Nets ______________________ (Please specify type)   Boat __________
   Spear Gun ___________   Fish pots ______
   Other (Please specify)________________________________________

65. How much do you spend per week/month (whichever respondent is more comfortable supplying) on the following items?
   Gas_________ (w) (m)   Boat maintenance _______ (w) (m)   Storage rental______ (w) (m)
   Crew (Matlo)________ (w) (m)   Equipment repair/replacement___________ (w) (m)
   Other _____________________ (w) (m)

66. How often in a given week do you fish in the SMMA?
   Twice a week _____   Three times a week _____
   Every day _____   Other (Please specify) _____

66. List the five most important species (types) that you catch in the SMMA.

<table>
<thead>
<tr>
<th>Target Species Name</th>
<th>Fishing gear used</th>
<th>Name of place harvested</th>
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67. On average, how much (in pounds) reef fish or pot fish do you catch in the SMMA per trip/per day/per week (let respondent answer using the time frame with which he feels most comfortable)?
   ______________________________________________ (trip) (day) (week)
68. On average, how much (percentage, pounds or description such as ‘most’) reef fish or pot fish caught in the SMMA do you eat and sell? *(Indicate unit used i.e. %, lbs, etc.)*

Eat ___________________________ Sell ___________________________

69. On average, how much (in pounds) pelagic (deep sea) fish do you catch per week/per day/per trip *(let respondent answer using the time frame with which he feels comfortable)*?

__________________________________________________________________ (trip) (day) (week)

70. On average, how much (percentage, pounds or description such as ‘most’) pelagic (deep sea) fish do you eat and sell? *(Indicate unit used i.e. %, lbs, etc.)*

Eat ___________________________ Sell ___________________________

71. Are there any areas in the SMMA that you have difficulty going to or are prevented from using for fishing?

Yes ____________ No ___________

Explain _______________________________________________________________________
_______________________________________________________________________________

72. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood?

Extremely important ___________ Reasonably important ___________

Not important ___________ Don’t Know ___________

73. Do you think that fishermen contribute to marine environment (coral reef, fish, water quality, beaches) destruction in any way?

Yes ____________ No ___________

Explain _______________________________________________________________________
_______________________________________________________________________________
**H. DIVERS/SNORKELLERS**

74. Rate the current condition of the following dive/snorkel sites, the state of coral and water quality and the abundance and diversity of marine life.

<table>
<thead>
<tr>
<th>Site</th>
<th>State of Coral</th>
<th>Water Quality</th>
<th>Abundance of Marine Life</th>
<th>Diversity of Marine Life</th>
<th>Ave. No. of Dives per: (allow respondent to select week or month)</th>
<th>Ave. No. of Divers per: (allow respondent to select week or month)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.Excellent</td>
<td>1.Excellent</td>
<td>1.High</td>
<td>1.High</td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Coral Gardens</td>
<td>2.Good</td>
<td>2.Good</td>
<td>2.Average</td>
<td>2.Average</td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Jalousie</td>
<td>3.Average</td>
<td>3.Average</td>
<td>3.Low</td>
<td>3.Low</td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Piton Wall</td>
<td>4.Poor</td>
<td>4.Poor</td>
<td>4.Can’t say</td>
<td>4.Can’t say</td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Superman’s Flight</td>
<td>5 Can’t say</td>
<td>5 Can’t say</td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Pinnacles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Trou Diable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Grand Caille</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Fairyland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Anse Chastanet Reef</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Turtle Reef</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Anse Cochon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Wreck of Lesleen M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Wreck of Daini Koyomaru</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Other <em>(Please specify)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
<tr>
<td>Other <em>(Please specify)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Week</strong></td>
<td><strong>Month</strong></td>
</tr>
</tbody>
</table>
75. How much do you spend per week/month *(whichever respondent is more comfortable supplying)* on the following items?

- Gas ________ (w) (m)
- Boat maintenance ________ (w) (m)
- Storage rental ________ (w) (m)
- Crew ________ (w) (m)
- Equipment repair/replacement ____________ (w) (m)
- Material __________ (w) (m)
- Other ________________________________ (w) (m)

76. Are there problems with dive/snorkel access or prohibition/restriction from such in the SMMA?

- Yes ____________ No ____________
- Explain _______________________________________________________________________
  ______________________________________________________________________________

77. How important, do you think is the health of the marine environment (beaches, coral reef, fish, water quality) to your livelihood?

- Extremely important ____________ Reasonably important ____________
- Not important ____________ Don’t Know ____________

78. Do you think that divers/snorkellers contribute to marine environment (beaches, coral reef, fish, water quality) degradation in any way?

- Yes ____________ No ____________
- Explain _______________________________________________________________________
  ______________________________________________________________________________
I.  YATCHSMEN, WATER TAXIS, OTHER BOATMEN

79. How often during a given week do you patronize (visit) local restaurants and other businesses in Soufriere or carry passengers to these places? Please tick one. [Peak: December – April] Off-Peak [May – November]

**Peak**
- Twice weekly
- Three times weekly
- Every day
- Other (Please indicate)

**Off-peak**
- Twice weekly
- Three times weekly
- Every day
- Other (Please indicate)

Repeat Yachtsmen only

When you visit the SMMA, how often do you and your guests patronize (visit) local restaurants and other businesses in Soufriere?

- Always
- Often
- Occasionally
- Rarely
- Never

81. Are there problems with mooring/anchorage access in the SMMA?

- Yes
- No

Explain

______________________________________________________________________________

______________________________________________________________________________

82. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood/yachting?

- Extremely important
- Reasonably important
- Not important
- Don’t Know
83. Do you think that boatmen (yachters, water taxis, etc) contribute to marine environment (coral reef, fish, water quality, beaches) degradation in any way?
   Yes ____________ No ____________
   Explain ____________________________________________________________________
______________________________________________________________________________

J. HOTELS, RESTAURANTS & SMALL BUSINESS OWNERS

84. What year was your business established? _________________

85. On average, how many of your customers (divers, snorkellers, tour visitors) visit/use the SMMA per week?
   Peak: Divers and snorkellers ________ Tour visitors ________ Other ____________
   Off-peak: Divers and snorkellers ________ Tour visitors ________ Other ____________

85. Are there problems with visitor access to your business directly related to the SMMA?
   Yes ____________ No ____________
   Explain ____________________________________________________________________
______________________________________________________________________________

86. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your business?
   Extremely important _________ Reasonably important _________
   Not important _________ Don’t Know _________
87. Do you think that your business contributes to marine environment (coral reef, fish, water quality, beaches) degradation in any way?
   Yes ____________ No __________
   Explain ________________________________
   ________________________________________

88. Do you see your business as being profitable to you?
   Yes ____________ No __________

89. Do you intend on expanding your business within the next five to ten years?
   Yes __________ No _________   Why? ____________________________

K. ANY ADDITIONAL COMMENTS
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________