Socio-economic monitoring by Caribbean fishery authorities


Centre for Resource Management and Environmental Studies (CERMES) University of the West Indies, Faculty of Pure and Applied Sciences Cave Hill Campus, Barbados

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Disclaimer
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1 WORKSHOP WELCOME

Mr. Norman Norris welcomed participants to the workshop by providing a brief overview of the *Socio-economic monitoring by Caribbean fishery authorities* (Fisheries SocMon) project. Mr. Andrew Magloire, Chief Fisheries Officer, gave the welcome address. Mr. Magloire noted that fisheries data collection usually focuses on other statistics while socio-economic information on those in the sector is not well captured. He informed participants that the Fisheries SocMon project involves five Caribbean Regional Fisheries Mechanism (CRFM) member countries and stated that by the end of the workshop it was hoped that participants would have a greater appreciation for using socio-economic information in fisheries. He noted that an additional benefit to the sector included better informed people for decision-making.

Following the agenda (Appendix 1), Maria Pena also welcomed participants (Appendix 2) to the second of the five regional socio-economic monitoring (SocMon) workshops for the US-NOAA funded Fisheries SocMon project. She introduced herself and Katherine Blackman, CERMES Research Assistant, and gave an overview of their experience with socio-economic monitoring. She said the objectives of the workshop were to build capacity in socio-economic monitoring for the site and to develop a sustainable SocMon site monitoring plan for the chosen study area.

2 INTRODUCTION TO PROJECT

Maria Pena gave participants an overview of the entire Fisheries SocMon project by providing a background on funding, duration, project management and the overall goal of the project and its objectives (Appendix 3). She noted that the first objective of the project was being realized with the initiation of the Barbados training workshop and would continue for the next four weeks with the implementation of training workshops in the remaining four sites (Dominica, Nevis, Grenada and St. Vincent). Participants were reminded of the workshop goal and objectives. This was followed by an overview of the project’s study sites. Preliminary site descriptions of resource uses, stakeholder groups and issues or activities relevant to each site, as provided by the fishery authorities during the country and site selection process, were discussed in the overview.

3 TRAINING AND CASE STUDIES

Maria Pena introduced participants to the SocMon Caribbean methodology for collecting and analyzing basic socio-economic data useful for coastal management. During this session, participants were encouraged to refer to the SocMon Caribbean guidelines and socio-economic manual. It was emphasized that these references were important resource materials for SocMon Caribbean. Examples of SocMon projects in the wider Caribbean region were given to illustrate the wide applicability of SocMon, ranging from fisheries management planning and fisheries profiling to efforts at strengthening marine protected area (MPA) management.

Each of the four phases of the SocMon Caribbean methodology (preparatory activities; planning and reconnaissance; field data collection and data analysis) was described using lessons from previous studies to explain components of each phase.

4 SITUATION

On the first day of the workshop participants began developing the goal and objectives for monitoring at the study area comprising three western fishing villages, Dublanc, Bioche and Colihaut.
In order to understand the reason for choosing these villages for socio-economic monitoring, participants were asked to provide the facilitators with a background to the area outlining the issues and prominent activities occurring there. The following were identified:

- Effects of quarrying (siltation of aquatic environments)
- Reduction in fish catch – fish used to be caught along the coast but now fishermen had to go fishing offshore and were involved in deep sea fishing for red fish
- Increasing price of fish but decline in volume of fish caught
- Reduction in biodiversity
- Provision of good quality water
- Fisheries and agriculture
- Changes in the shoreline profile
- Deficiency in valid and reliable information on health impacts of quarries. Due to health issues affecting people, particularly in Colihaut, there is the need to develop a health monitoring programme
- Unemployment
- Lack of a systematic approach to training young people in fishing
- Lack of availability of land for expansion
- A dive site is currently being developed in the area but needs to be regulated
- In Bioche and Dublanc pot fishing is common but nets are also used.
- Collaborative efforts and linkages occur between the three villages. The St. Peter’s Cooperative covers the three villages
- There is the potential for tourism development primarily eco-tourism, community and heritage tourism
- Lack of infrastructure for recreation and sports

Based on the above, the goal and objectives for monitoring were developed (see Section 5).

5 PLANNING TO MONITOR AND SITE VISIT

Prior to visiting the three villages for a reconnaissance of the area, participants were asked to define the boundaries of the study area for initiation of monitoring, as well as to articulate the goals and objectives for monitoring based on their interests. The boundaries of the study area were set using a Google Earth map of the area (see Appendix 4). The goal and objectives were further discussed on the second day of the workshop as the participants worked through the preparatory activities worksheet. This worksheet forms the basis of the monitoring plan.

Since it was determined that there is currently no policy or management initiative that best determined the goal, participants decided that the impacts of present and proposed developments on the socio-economics of the three fishing villages should be monitored. They were most interested in monitoring changes with a view to ensuring sustainable use of the resources in Dublanc, Bioche and Colihaut.

Suggestions for the goal of SocMon at the study area encompassing the three villages included these elements:

- Monitoring for development
- Building capacity for monitoring
• Ensuring sustainable use of resources

Based on these suggestions, the goal was refined on the second day of the workshop and the objectives were determined and agreed by all participants. See draft monitoring plan below.

This SocMon project will be jointly owned by the St. Peter’s Fisheries Co-operative and the Dominica Fisheries Division. These agencies will lead and sustain the site monitoring.

For the site visit participants divided into two groups, each with a group leader. They looked at the physical development in the area (anything being constructed or demolished), fishing-related activities (location and distribution), and anything occurring in the area that would have to be monitored later (Appendix 5). They were reminded during the reconnaissance to keep an open mind, and were encouraged to take their digital cameras for developing a visual catalogue of the area.

There was one stop at each of the fishing villages on the site visit – Dublanc, Bioche and Colihaut. Participants made observations in relation to the goal and objectives of monitoring. Table 1 outlines some features observed.

Table 1 Socio-economic characteristics of Dublanc, Bioche and Colihaut

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Dublanc</th>
<th>Bioche</th>
<th>Colihaut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Medium</td>
<td>Small</td>
<td>Large- largest population</td>
</tr>
<tr>
<td>Household density</td>
<td>Dense</td>
<td>Dense</td>
<td>Dense</td>
</tr>
<tr>
<td>Commercial activity</td>
<td>Lacking – one hair salon</td>
<td>A few small shops and bars</td>
<td>A few small shops, village council, credit union</td>
</tr>
<tr>
<td>Material style of life</td>
<td>Mixture of dilapidated wooden houses and recently built bungalows and multi-storey houses on hill above</td>
<td>• Construction evident – community oriented. Much of the building is done through self-help • Mixture of dilapidated wooden houses with recently constructed cement houses</td>
<td>Fairly good. Greater proportion of concrete houses Construction ongoing</td>
</tr>
<tr>
<td>Fisheries infrastructure</td>
<td>• Locker rooms built by the FAO World Food Programme (1992/93) • Ice storage • Galvanized boat shed • Wooden haul out • Bathroom facilities • No jetty</td>
<td>• Jetty built under FAO World Food Programme in disrepair since Hurricane Jean • Jetty has been previously repaired with wood rather than cement since it is inexpensive to repair after hurricanes. Boards can be removed and stored prior to hurricanes • Locker rooms built by FAO World Food Programme (1992/93)</td>
<td>• Lacking. No jetties, no locker rooms • Boatyards being constructed gradually concrete due to damage from hurricanes</td>
</tr>
<tr>
<td>Fisheries-related activities</td>
<td></td>
<td></td>
<td>• Boat building and repair – lack of infrastructure</td>
</tr>
<tr>
<td>Characteristics</td>
<td>Villages</td>
<td>Colihaut</td>
<td></td>
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<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>Dublanc</td>
<td>Bioche</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Bamboo fish pots no longer made subsequent to the death of an old fisherman who had the traditional knowledge</td>
<td><strong>Religion</strong></td>
<td>Site of oldest Catholic Church in Dominica – large 3 other denominations</td>
<td></td>
</tr>
<tr>
<td>• Bamboo fish pots no longer made subsequent to the death of an old fisherman who had the traditional knowledge</td>
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<td></td>
<td></td>
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<tr>
<td>• Net repair</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Washing clothes, dishes, recreation</td>
<td>Uses of river</td>
<td>No activities seen in the river</td>
<td></td>
</tr>
<tr>
<td>• Health Centre – resident nurse on-call 24 hrs</td>
<td>Services</td>
<td>Credit Union</td>
<td></td>
</tr>
<tr>
<td>• Fair trade centre</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Large playing field equipped with night lighting</td>
<td>Amenities</td>
<td>Community Centre to be developed</td>
<td></td>
</tr>
<tr>
<td>• Pavilion under construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Nursery school</td>
<td>Education</td>
<td>Fairly good size. About 20 years prior, there was no beach in Colihaut as is presently the case in the other areas</td>
<td></td>
</tr>
<tr>
<td>• Primary school</td>
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<tr>
<td>• Secondary school in St. Joseph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Beach</td>
<td>Small beach - swimming</td>
<td></td>
</tr>
<tr>
<td>Small beach - swimming</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West Indies Aggregate quarry located to the north of Colihaut</td>
<td>Quarry activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Problem with waste disposal</td>
<td>Waste management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strong</td>
<td>Social networks</td>
<td>Strong</td>
<td></td>
</tr>
<tr>
<td>Strong</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strong</td>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Bioche River Bridge and Wall Project</td>
<td></td>
<td>Changes in shoreline profile observed over last 15-20 years Unemployment not a problem as in the other villages</td>
<td></td>
</tr>
<tr>
<td>• Fish kill</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• River flushing is a problem</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On day 2 of the workshop, Norman Norris guided participants through a slide show of photos taken during the first day’s site visit and interesting aspects of the area relevant to monitoring were discussed (Appendix 5).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Participants spent day 2 of the workshop working in two groups to complete the preparatory activities worksheet. The SocMon team members were also determined and are as follows:

- Althia St. Louis (Team leader)
- Norman Norris
- Herbert Sabroache
- Rosette Lewis
- Craig Stedman
- Cyrille John
- Rhiannan Price

An overview of questionnaire design, data coding and data analysis was also provided.

6 DRAFT MONITORING PLAN

This draft monitoring plan has been produced by combining the information in each of the two groups’ preparatory activities worksheets. It forms the basis for the socio-economic monitoring plan for the Dublanc, Bioche and Colihaut study area. The SocMon team will need to review and make further adjustments to this plan before implementing monitoring.

<table>
<thead>
<tr>
<th>Goal (category)</th>
<th>Objective(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To monitor impacts of present and proposed development with a view to ensure sustainable use of the resource base of the Dublanc, Bioche and Colihaut communities</td>
<td>To monitor the socio-economic impacts of development</td>
</tr>
<tr>
<td></td>
<td>To increase stakeholder awareness of the importance of the resource base</td>
</tr>
<tr>
<td></td>
<td>To identify demands for alternative livelihoods</td>
</tr>
<tr>
<td></td>
<td>Encourage stakeholder participation in decision-making</td>
</tr>
</tbody>
</table>

Stakeholder identification

<table>
<thead>
<tr>
<th>Study area activity or issue</th>
<th>Primary stakeholder [and organization]</th>
<th>Secondary stakeholder [and organization]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fishing</td>
<td>St. Peter’s Cooperative Fishermen</td>
<td>Village councils Boat builders Fish vendors Net menders Fisher helpers Consumers Schools</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Farmers</td>
<td>Windward Islands Farmers Association (WINFA) Village councils Ministry of Agriculture</td>
</tr>
<tr>
<td>Quarrying</td>
<td>West Indies Aggregate R&amp;O Inc. PH Williams</td>
<td>West Indies Aggregates R&amp;O Inc. PH Williams</td>
</tr>
<tr>
<td>Study area activity or issue</td>
<td>Primary stakeholder [and organization]</td>
<td>Secondary stakeholder [and organization]</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Builders</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Truckers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contractors</td>
</tr>
<tr>
<td>Construction</td>
<td>Homeowners</td>
<td>Builders</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contractors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Suppliers of building materials</td>
</tr>
<tr>
<td>Tourism</td>
<td>Tour guides</td>
<td>Tour guides</td>
</tr>
<tr>
<td></td>
<td>Dive companies</td>
<td>Vendors</td>
</tr>
<tr>
<td></td>
<td>Tour agencies</td>
<td>Forestry</td>
</tr>
<tr>
<td></td>
<td>Colihaut Bann Mové</td>
<td>Restaurants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bus drivers</td>
</tr>
<tr>
<td>Recreation/culture</td>
<td>United Stars Sports Club</td>
<td>Community/spectators</td>
</tr>
<tr>
<td></td>
<td>Triumphs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Colihaut Stone Blasters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dublanc/Bioche women’s football team</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flamboyant cultural group</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bioche cultural group</td>
<td></td>
</tr>
</tbody>
</table>

**Stakeholder locations and key informants**

<table>
<thead>
<tr>
<th>Stakeholders (1° and 2°)</th>
<th>Location of stakeholder</th>
<th>Key informants for stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmers</td>
<td>Study area</td>
<td>Whitford Louis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Richmond Shillingford</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clem Charles</td>
</tr>
<tr>
<td>Fishers</td>
<td>Study area</td>
<td>St. Peter’s Cooperative chairman</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Desmond Bertrand</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ronaldson Blaize</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dion John</td>
</tr>
<tr>
<td>Quarry operators</td>
<td>Colihaut</td>
<td>Quarry company managers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Evans John</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roger Williams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Daryl Williams</td>
</tr>
<tr>
<td>Colihaut Bann Mové</td>
<td>Colihaut</td>
<td>Key informants suggested but</td>
</tr>
<tr>
<td></td>
<td></td>
<td>could not be identified from</td>
</tr>
<tr>
<td></td>
<td></td>
<td>photocopy</td>
</tr>
<tr>
<td>Tour guides</td>
<td>Dublanc</td>
<td>Glen Larogue</td>
</tr>
<tr>
<td>Village Councils</td>
<td>Study area</td>
<td>Village council clerk and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chairpersons</td>
</tr>
<tr>
<td>Stakeholders (1° and 2°)</td>
<td>Location of stakeholder</td>
<td>Key informants for stakeholders</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Contractors/builders</td>
<td>Colihaut</td>
<td>Key informants suggested but could not be identified from photocopy</td>
</tr>
<tr>
<td>Recreation/culture</td>
<td>Dublanc, Colihaut</td>
<td>Rosette Bertrand, Clyde Pierre, Louis Baltywatt</td>
</tr>
</tbody>
</table>

**Identify study area**

<table>
<thead>
<tr>
<th>Study area selection criteria</th>
<th>Study area description (or attach area map)</th>
</tr>
</thead>
</table>
| Area most likely to be impacted by development | Northern boundary: Español River (Point Round River)  
Southern boundary: Bouleau River  
Western boundary: to be decided  
Eastern boundary: Agriculture feeder road (Bouleau to Syndicate)* |

*If this exceeds 1km, the SocMon team should examine reducing the extent of this inland boundary*

**SocMon leader and team**

<table>
<thead>
<tr>
<th>Skill requirement / role on team</th>
<th>Proposed team member and affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data collection</td>
<td>Nicolas Roberts, Rosette Lewis, Craig Stedman, Jullan Defoe</td>
</tr>
<tr>
<td>Data analysis</td>
<td>Derrick Theophile, Sharon Coriette, Jullan Defoe</td>
</tr>
<tr>
<td>Social scientist/knowledge in economics</td>
<td>Herbert Sabroache, Craig Stedman, Althia St. Louis, Jullan Defoe</td>
</tr>
<tr>
<td>Management coordinator and planning</td>
<td>Herbert Sabroache</td>
</tr>
<tr>
<td>Natural scientist</td>
<td>Riviere Sebastian, Cyrille John</td>
</tr>
<tr>
<td>Communicator</td>
<td>Aurelius Joseph, Glenis Popo</td>
</tr>
<tr>
<td>Local advisor</td>
<td>Althia St. Louis</td>
</tr>
<tr>
<td>Fisheries officer</td>
<td>Jullan Defoe</td>
</tr>
<tr>
<td>Forestry officer</td>
<td>Aurelius Joseph</td>
</tr>
<tr>
<td>Motivator/team leader</td>
<td>Craig Stedman, Althia St. Louis</td>
</tr>
</tbody>
</table>
Methods and visual presentation

<table>
<thead>
<tr>
<th>Objective / Specific objective</th>
<th>Method of data collection</th>
<th>Means of visual presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative livelihoods</td>
<td>Household survey</td>
<td>PowerPoint</td>
</tr>
<tr>
<td>Development impacts</td>
<td>Household survey</td>
<td>PowerPoint</td>
</tr>
<tr>
<td></td>
<td>Secondary data</td>
<td>Mass media</td>
</tr>
<tr>
<td></td>
<td>Questionnaire</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Town hall meeting</td>
<td></td>
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<tr>
<td>Stakeholder awareness</td>
<td>Household survey</td>
<td>PowerPoint</td>
</tr>
<tr>
<td></td>
<td>Questionnaire</td>
<td></td>
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</tbody>
</table>

SocMon team member responsibility matrix

<table>
<thead>
<tr>
<th>Member</th>
<th>Data collector</th>
<th>Member</th>
<th>Local advisor</th>
<th>Member</th>
<th>Fisheries Officer</th>
<th>Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task</td>
<td>Duration</td>
<td>Task</td>
<td>Duration</td>
<td>Task</td>
<td>Duration</td>
<td></td>
</tr>
<tr>
<td>Data collection</td>
<td>1 mo</td>
<td>Liaising</td>
<td>2 mo</td>
<td>Supervision</td>
<td>1 mo</td>
<td></td>
</tr>
<tr>
<td>Data analysis</td>
<td>1 week</td>
<td>Collecting research</td>
<td>2 mo</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Questionnaire design</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* This responsibility matrix is based on material from one group. The second was incomplete.

Work plan schedule

<table>
<thead>
<tr>
<th>Activity / task</th>
<th>Time unit</th>
<th>Wk1</th>
<th>Wk2</th>
<th>Wk3</th>
<th>Wk4</th>
<th>Wk5</th>
<th>Wk6</th>
<th>Wk7</th>
<th>Wk8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning and training</td>
<td></td>
<td>x</td>
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<tr>
<td>Sensitization</td>
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<tr>
<td>Reconnaissance</td>
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<td>Wk1</td>
<td>Wk2</td>
<td>Wk3</td>
<td>Wk4</td>
<td>Wk5</td>
<td>Wk6</td>
<td>Wk7</td>
<td>Wk8</td>
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<tr>
<td>Data compilation</td>
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<td>*</td>
<td>*</td>
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<tr>
<td>Data analysis and interpretation</td>
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</table>

*The time period for this activity was not entered but based on the schedule should occur simultaneously while the interviews and surveys are being conducted.*

**Critical research resources required (budget and non-budget)**

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<thead>
<tr>
<th>Resource description</th>
<th>Use of resource</th>
<th>Comments on availability</th>
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<tr>
<td>Vehicles</td>
<td>Transportation</td>
<td>Traveling officers require additional mileage</td>
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<tr>
<td>Stationery</td>
<td>Questionnaire and report preparation</td>
<td>Ministry of Agriculture</td>
</tr>
<tr>
<td>Computer and accessories</td>
<td>Data entry and analysis</td>
<td>Ministry of Agriculture – Fisheries Division</td>
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<td>Human resources</td>
<td>Data collection, compilation, analysis and presentation</td>
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<td>Office space</td>
<td>Meetings and storage</td>
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<td>Digital camera</td>
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**Budget**

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<tr>
<th>Description of expense</th>
<th>No. of units</th>
<th>Unit cost*</th>
<th>Total cost*</th>
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<tr>
<td>Interviewers and questionnaires</td>
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<tr>
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<td>1,000.00</td>
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<td>Computer and accessories</td>
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<tr>
<td>Transportation</td>
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<td>300.00</td>
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<tr>
<td>Digital camera</td>
<td>(In-kind)</td>
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</tr>
<tr>
<td>Human resources</td>
<td>(2500.00)</td>
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<td></td>
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</table>
Workshop | (1500.00)  
Venue rental | 90.00  
Refreshments | 3000.00  
Database development | 200.00  
Data entry and analysis | 400.00  
Report preparation | 485.00  
Coordination and monitoring | 1800.00  

| Sum total of SocMon costs | (6,500.00)  
|  | 9,475.00  

* = currency used [EC$]  
* bracketed amounts show differences in line items and costs estimated between the two groups

Key variables in this study for interviews

The variables chosen by the groups are bolded.

<table>
<thead>
<tr>
<th>Var. No.</th>
<th>Variable to be monitored</th>
<th>Secondary sources of information &amp; comments on factors to be taken into account when monitoring</th>
<th>Importance of var. (H, M, L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1.</td>
<td>Age</td>
<td>Local government, village council</td>
<td>H</td>
</tr>
<tr>
<td>S2.</td>
<td>Gender</td>
<td>Local government, village council</td>
<td>M</td>
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<tr>
<td>S3.</td>
<td>Ethnicity</td>
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<tr>
<td>S4.</td>
<td>Education</td>
<td>Statistical department, local government, village council</td>
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</tr>
<tr>
<td>S5.</td>
<td>Religion</td>
<td>Statistical department, local government, village council</td>
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</tr>
<tr>
<td>S6.</td>
<td>Language</td>
<td>Statistical department, local government, village council</td>
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</tr>
<tr>
<td>Var. No.</td>
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<td>Secondary sources of information &amp; comments on factors to be taken into account when monitoring</td>
<td>Importance of var. (H, M, L)</td>
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<tr>
<td>----------</td>
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<td>-----------------------------</td>
</tr>
<tr>
<td>S7.</td>
<td>Occupation</td>
<td>Statistical department, local government, village council</td>
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<tr>
<td>S8.</td>
<td>Household size</td>
<td>Statistical department, local government, village council</td>
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</tr>
<tr>
<td>S9.</td>
<td>Household income</td>
<td>Statistical department, local government, village council</td>
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</tr>
<tr>
<td>S10.</td>
<td>Household activities</td>
<td>Local government, village council</td>
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</tr>
<tr>
<td>S11.</td>
<td>Household goods and services</td>
<td>Local government, village council</td>
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</tr>
<tr>
<td>S12.</td>
<td>Types of household uses</td>
<td>Local government, village council</td>
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<tr>
<td>S13.</td>
<td>Household market orientation</td>
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<tr>
<td>S14.</td>
<td>Household uses</td>
<td>Local government, village council</td>
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<tr>
<td>S15.</td>
<td>Non-market and non-use values</td>
<td>[No information]</td>
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</tr>
<tr>
<td>S16.</td>
<td>Perceptions of resource conditions</td>
<td>USAID, Fisheries Division</td>
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<tr>
<td>S17.</td>
<td>Perceived threats</td>
<td>[No information]</td>
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</tr>
<tr>
<td>Var. No.</td>
<td>Variable to be monitored</td>
<td>Secondary sources of information &amp; comments on factors to be taken into account when monitoring</td>
<td>Importance of var. (H, M, L)</td>
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<tr>
<td>----------</td>
<td>--------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>S18.</td>
<td>Awareness of rules and regulations</td>
<td>Fisheries Division, Fisheries Act, policy, physical planning, Forestry and Wildlife Act</td>
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<tr>
<td>S19.</td>
<td>Compliance</td>
<td>Fisheries Division, Fisheries Act, policy, physical planning, Forestry and Wildlife Act</td>
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<tr>
<td>S20.</td>
<td>Enforcement</td>
<td>Fisheries Division, Fisheries Act, policy, physical planning, Forestry and Wildlife Act</td>
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<tr>
<td>S21.</td>
<td>Participation in decision-making</td>
<td>Village council, community groups, NGOs</td>
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</tr>
<tr>
<td>S22.</td>
<td>Membership in stakeholder organizations</td>
<td>Village council, community groups, NGOs</td>
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<tr>
<td>S23.</td>
<td>Perceived coastal management problems</td>
<td>USAID quarry report, village council</td>
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<tr>
<td>S24.</td>
<td>Perceived coastal management community solutions</td>
<td>USAID quarry report, village council</td>
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<tr>
<td>S25.</td>
<td>Perceived community problems</td>
<td>Village council, police, SPAT</td>
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<tr>
<td>S26.</td>
<td>Successes in coastal management</td>
<td>Fisheries Division</td>
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<tr>
<td>S27.</td>
<td>Challenges in coastal management</td>
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<tr>
<td>Var. No.</td>
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<td>Importance of var. (H, M, L)</td>
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<td>---------</td>
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</tr>
<tr>
<td>S28.</td>
<td>Material style of life</td>
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* Variables in bold text are those chosen by participants for monitoring

**Draft interview questions**

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<thead>
<tr>
<th>Var. No.</th>
<th>Question (key informant or survey)</th>
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</thead>
<tbody>
<tr>
<td>S1</td>
<td>What is your date of birth?</td>
</tr>
<tr>
<td>S4</td>
<td>Education level? ____ Primary _____ Secondary _____ Tertiary _____ Other _____ None</td>
</tr>
<tr>
<td>S5</td>
<td>What religion are you? ____ _____ _____ _____ Other</td>
</tr>
<tr>
<td>S7</td>
<td>What is your main source of income?</td>
</tr>
<tr>
<td>S7</td>
<td>What is your additional source of income?</td>
</tr>
<tr>
<td>S8</td>
<td>How many persons live in your household?</td>
</tr>
<tr>
<td>S9</td>
<td>How much money do you earn monthly? ___ $1,000-1,500 ___ $1,500-2,000 ___ $2,000-2,500 etc.</td>
</tr>
<tr>
<td>S18</td>
<td>Are you aware of any fishery laws and regulations?</td>
</tr>
<tr>
<td>S20</td>
<td>Do you think law enforcement efforts are adequate for resource protection? ____ Yes ____ No</td>
</tr>
<tr>
<td>S25</td>
<td>Are there any problems that are you regarding the coastline and marine environment?</td>
</tr>
</tbody>
</table>

**Key points to consider in data analysis and interpretation**

1. Additional workload on analyst
2. Biases based on who answers, who interviews. The analyst will have to be aware of these biases and decide whether the responses should be included in the analysis
3. A social/historical analyst required
4. Time: Time constraint, may not be enough
5. Technical expertise in SocMon group may not be adequate
6. Ambiguity in questions can lead to errors
Issues in arrangements for communication and validation

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Coordination/Planning</td>
</tr>
<tr>
<td>2</td>
<td>Logistics/resources</td>
</tr>
<tr>
<td>3</td>
<td>Publicity and mobilisation</td>
</tr>
<tr>
<td>4</td>
<td>Meeting in each village</td>
</tr>
<tr>
<td>5</td>
<td>Use of flyers, church notices, billboards and radios etc.</td>
</tr>
</tbody>
</table>

Any other comments (optional): No additional comments were made by the two workshop groups.

7 SPECIALIZATION MODULE

An add-on specialization on livelihoods analysis was provided on the third day of the workshop (see Appendix 6 for slide presentation outline). Participants noted that this module and its accompanying exercise were useful and thought-provoking.

8 WORKSHOP EVALUATION

At the end of the workshop, many participants completed a workshop evaluation form in order to provide feedback to the facilitators. See Figures 1-14 for the results.

Generally the workshop was successful with the majority of participants either strongly agreeing or agreeing that:

- The workshop goal and objectives had been achieved (Figures 1-3).
- The livelihoods analysis specialization module added value to the workshop (Figure 4).
- Their expectations for attending the workshop had been exceeded (Figure 5).
- The workshop was well organized and facilitated (Figures 6 and 7).
- They would recommend a similar workshop to their colleagues (Figure 8).
- Their abilities as a fisheries management professional or stakeholder had been improved as a result of the workshop (Figure 9).
- They enjoyed participating in the workshop (Figure 10) – all participants noted they enjoyed the workshop.

Only a small proportion of participants, one participant (out of 14) in all cases, gave no response, neither agreed nor disagreed or disagreed with the above (Figures 1-10).
Figure 1: The workshop goal was fully achieved

Figure 2: The first objective of the workshop (introduction to SocMon Caribbean methods) was fully achieved

Figure 3: The second objective of this workshop (development of a SocMon monitoring plan and timeline) was fully achieved

Figure 4: The specialization module added value to the workshop

Figure 5: My own personal expectations for why I attended this workshop were fully achieved

Figure 6: The workshop was well organised
Greater than half of the participants identified three main things they liked the most about the workshop (Figure 11):
- The educational knowledge gained.
- The participatory process through group work and discussions.
- The professionalism of the workshop facilitators.
Five participants were unable to identify the things they most liked about the workshop.

The least like things about the workshop included (Figure 12):
- The short duration of the workshop.
- The lengthy time given for practical work and the site visit.
Eight participants were unable to identify the things they least liked about the workshop.

Recommended changes to the workshop included (Figure 13):
- Participation of more diverse stakeholders
• A longer workshop
• Selection of the SocMon team earlier in the workshop so that workshop activities could be focused on the actual monitoring to be undertaken
• A sustained process to monitoring

Additional thoughts, comments or suggestions about the workshop were few but included (see Figure 14):
• The required commitment to fulfil the set goal and objectives of the proposed survey
• Very thorough learning materials and presentations with the suggestion of simplifying some of the language used
• Short time for training

![Figure 11: Most liked things about the workshop](image1)
![Figure 12: Least liked things about the workshop](image2)
![Figure 13: Recommended changes to the workshop](image3)
![Figure 14: Thoughts, comments or suggestions on the workshop](image4)
9 APPENDICES

Appendix 1: Agenda

Day 1 14 May
08:30 Registration and document distribution
09:00 Welcome from Dominica Fisheries Division, introduction of participants
09:15 Introduction to Fisheries SocMon Project, workshop objectives and arrangements
09:30 Introduction to SocMon Caribbean and socio-economic monitoring: What is SocMon? Why do this? Where has SocMon been applied in the Caribbean and globally?
10:00 Break
10:15 Overview of SocMon and the training materials (with slides, handouts, guidelines, manual)
11:00 SocMon case study presentations (e.g. Canaries, Negril, Glover’s Reef and La Parguera)
12:00 Lunch
13:00 Introduction to monitoring site: study area situation analysis, goals, objectives, secondary data, review of variables, issues of concern, preparation for site scoping (allocate teams to tasks)
15:00 Break
15:15 Field trip to monitoring site for field scoping and de-brief on site
17:00 Close

Day 2 15 May
08:30 Review of lessons and impressions from Day 1
09:00 Planning for monitoring: goals and objectives, process and work plan, study area boundaries, stakeholder identification and consultation, study approvals, monitoring team, schedule and budget, selection of variables, special resources required, constraints, etc.
10:00 Break
10:15 Continue planning for monitoring …
12:00 Lunch
13:00 Monitoring methods: interview guides for key informants, household survey interviews, data management, data analysis, interpretation, observation, visualization
15.00 Break
15:15 Continue monitoring methods…
16:00 Using monitoring outputs: key learning, validation, audiences, reporting, communicating information for decision-making, adaptive management, monitoring cycle
17:00 Close

Day 3 16 May
08:30 Review of lessons and impressions from Day 2
09:30 Confirmation of the SocMon site monitoring plan and implementation
10:00 Break
10:15 Fisheries SocMon project participation and evaluation of workshop
11:00 SocMon specialization module
12:00 Lunch
13:00 SocMon specialization module
15:00 Close
Appendix 2: Participants

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Appendix 3: Training outline

Socio-economic monitoring by Caribbean fishery authorities (Fisheries SocMon): Project Overview

- Background: Grant value, project duration and project manager
- Project goal and objectives
- Partner roles
- Training workshops
- Workshop goal and objectives
- Barbados site description: map of area, resource uses, stakeholder groups, issues/activities
- Dominica site description: map of area, resource uses, stakeholder groups, issues/activities
- Nevis site description: map of area, resource uses, stakeholder groups, issues/activities
- Grenada site description: map of area, resource uses, stakeholder groups, issues/activities
- St. Vincent and the Grenadines site description: map of area, resource uses, stakeholder groups, issues/activities

Socio-economic monitoring for coastal management in the Caribbean (SocMon)

- Purpose of this workshop
- What is SocMon?
- SocMon Caribbean guidelines: TOC
- SocMon manual: TOC
- SocMon history
- Why do this?
- Who is SocMon for?
- SocMon in the Caribbean
- Finding SocMon data: GCRMN database – ReefBase
- SocMon phases
- Preparatory activities
- Goals
- Objectives
- Define objectives
- SocMon process
- Identify the coastal management stakeholders
- Identify the study area
- Consult with stakeholders
- The SocMon team
- Identify SocMon variables
- Plans with socio-economic aspects provide rationale for using SocMon
- Reconnaissance and planning
- Secondary data
- Reconnaissance survey
• Planning field data collection: Work-plan
• Data collection
• What data do I collect?
• Sources of data
• Secondary data and data from key informants is used to:
  • Socio-economic variables
• What data do I collect?: Community level demographics
• What data do I collect?: Coastal and marine activities
• What data do I collect?: Governance
• What (Survey) data do I collect?: Household demographics
• What (Survey) data do I collect?: Attitudes and perceptions
• What (Survey) data do I collect?: Attitudes and perceptions
• How do I collect the data?
• Mapping, photos, (maybe GIS)
• Organisational relationships
• Local knowledge and classification
• Timeline of key events
• Historical mapping of changes
• Historical transect matrix
• Ranking
• Seasonal calendar
• Daily and seasonal time use patterns
• Venn diagram of resource use and resource users
• Flow charts of various types
• Decision diagramming
• Data analysis, communication and adaptive management
• SocMon results/analysis tables
• How to analyze: Secondary data, key informant info, household interviews, observations
• Validation workshop
• Communication choices
• Using SocMon outputs
Appendix 4: Site information – Google Earth map of study area
Appendix 5: Site photos of Dublanc, Bioche and Colihaut study area

**Dublanc site visit**

Temporary storage facilities

Local innovation – marlin bone rafters

Boat shed

‘Ladder’ for boat haul-up

Fishers locker facilities

Types of houses
Bioche site visit

Recently constructed houses

Primary school and community playing field

Physical fisheries infrastructure

Bioche coastline

Boat shed and haul-up site

Typical houses
Fishers locker facilities

Types of fishing

Households

Households

St. Peter’s Fisheries Cooperative and multipurpose complex

Completed project
Colihaut site visit

Hillside view of Colihaut

Hillside view of Colihaut

Quarry site

Boat building area

Colihaut coastline

Net mending
Appendix 6: Specialisation module outline
Livelihoods analysis: Specialization module for Fisheries SocMon Workshop

- What is a livelihood?
- Sustainable livelihoods approach
- SL framework
- What is the vulnerability context?
- Livelihood assets
- Livelihoods assets: What is human capital?
- Livelihoods assets: What is social capital?
- Livelihoods assets: What is natural capital?
- Livelihoods assets: What is physical capital?
- Livelihoods assets: What is financial capital?
- Transforming structures and processes
- Transforming structures and processes: What are structures?
- Transforming structures and processes: What are processes?
- Livelihood strategies
- Livelihood outcomes
- Conducting SL analysis
- Conducting SL analysis: Scope and scale of analysis
- Conducting SL analysis: Sequence of work
- Conducting SL analysis: Who is responsible for what?
- Conducting SL analysis: Knowing when to stop
- Tools for use in SL analysis