

**Socio-economic monitoring by Caribbean Challenge MPA Managers
Report No. 2**

**Report of the St. Lucia
SocMon Caribbean Training Workshop
Juliette's Lodge Hotel, St. Lucia
16-20 January 2012**



**Centre for Resource Management and Environmental Studies (CERMES)
University of the West Indies, Faculty of Pure and Applied Sciences
Cave Hill Campus, Barbados
2012**

CONTENT

1	WORKSHOP WELCOME	2
2	INTRODUCTION TO PROJECT	3
3	TRAINING	3
4	WORKSHOP EVALUATION	5
	APPENDIX 1: AGENDA	8
	APPENDIX 2: PARTICIPANTS	11
	APPENDIX 3: CARIBBEAN CHALLENGE SOC MON PROJECT OVERVIEW.....	12
	APPENDIX 4: SOC MON TRAINING SLIDES	14
	APPENDIX 5: DEMONSTRATION STUDY SITE OVERVIEW.....	26
	APPENDIX 6: KEY INFORMANT INTERVIEW GUIDES.....	28
	APPENDIX 7: HOUSEHOLD/INDIVIDUAL SURVEYS	30
	APPENDIX 8: GROUP PRESENTATION SLIDES	35
	APPENDIX 9: PREPARATORY ACTIVITIES WORKSHEETS	44
	APPENDIX 10: WORKSHOP EVALUATION	72

Citation

Pena M and K. Blackman. 2012. Report of the St. Lucia SocMon Caribbean Training Workshop, 16-20 January 2012. Socio-economic monitoring by Caribbean Challenge MPA Managers Project Report No. 2. 74 pp.

Disclaimer

This report was prepared by the Centre for Resource Management and Environmental Studies (CERMES) under a Coral Reef Conservation Grant from the National Fish and Wildlife Foundation (NFWF) for the project, Socio-economic Monitoring by Caribbean Challenge MPA Managers (Project no. 2011-0051-012). The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the opinions or policies of the U.S. Government or the National Fish and Wildlife Foundation. Mention of trade names or commercial products does not constitute their endorsement by the U.S. Government or the National Fish and Wildlife Foundation.

Contact

Maria Pena

Centre for Resource Management and Environmental Studies

University of the West Indies, Cave Hill Campus, Barbados

Phone: 246-417-4316 Fax: 246-424-4204

Email: maria.pena@cavehill.uwi.edu

Web site: <http://www.cavehill.uwi.edu/cermes>

1 WORKSHOP WELCOME

Following the agenda (Appendix 1), Maria Pena welcomed participants (Appendix 2) to the second of three site-specific socio-economic monitoring (SocMon) workshops for the US-NFWF funded project on *Socio-economic monitoring by Caribbean Challenge MPA Managers (Caribbean Challenge SocMon)*. She indicated that it was an informal workshop session involving group work and three field trips. She highlighted that CERMES is partnering with the Saint Lucia National Trust (SLNT) and Department of Fisheries to conduct the workshop in St. Lucia. She further provided information on the work of CERMES and its practical experience in building capacity of fisheries departments, MPA authorities, a wide range of NGOs and private stakeholders through training and several projects in SocMon Caribbean, MPA management effectiveness and evaluation, and local area management. Reference was made to the 2005 regional UNEP SocMon training workshop held in St. Lucia and the demonstration exercises at Soufriere and Canaries. Ms. Pena mentioned that the objectives of the workshop were to build capacity in socio-economic monitoring for the site and to develop sustainable SocMon site monitoring plans for the Pointe Sable Environmental Protection Area (PSEPA), the Soufriere Marine Management Area (SMMA) and Pitons Management Area (PMA). Each MPA site would receive a sub-grant of USD 2,500 to initiate monitoring.

She introduced two CERMES colleagues, Ms. Katherine Blackman, CERMES Research Assistant and Assistant SocMon Trainer for the project and Dr. Patrick McConney, CERMES Senior Lecturer and Technical Advisor to the Caribbean Challenge SocMon project. Ms. Pena noted that Ms. Blackman has experience in SocMon and also conducted a MSc project using the SocMon Caribbean methodology in the Negril Marine Park, Jamaica. She told participants that Dr. McConney was first SocMon Coordinator for English-speaking Caribbean. She mentioned that in addition to the Caribbean Challenge SocMon project he was currently the Principal Investigator and Project manager of the Marine Resource Governance in the Eastern Caribbean (MarGov) project and NOAA- funded MPA governance project. Ms. Pena invited Dr. McConney to give a brief description of the latter which is of particular relevance to MPAs in St. Lucia. Dr. McConney told participants that the aim of the project was to develop adaptive capacity for MPA governance. There is focus on governance and he stated that the human dimension was the main reason for failure of MPAs. The project is expected to end in October 2012.

Mr. Anthony Sammie, Programme Officer (South) gave brief opening welcoming remarks on behalf of Mr. Bishnu Tulsie, Director, Saint Lucia National Trust. Ms. Allena Joseph, Fisheries Biologist, St. Lucia Department of Fisheries welcomed the workshop facilitators and participants on behalf of Ms. Sarah George, Chief Fisheries Officer. In her opening she indicated the importance of marine protected areas (MPAs) as tools for conservation of biodiversity and contributors to the ecosystem management of fisheries. She noted that St. Lucia's two marine protected areas – PSEPA and SMMA – encompass marine and wildlife reserves and a number of different ecosystems, and collectively provide a number of socio-economic opportunities including fishing, charcoal production and dive tourism. As such

she stated that socio-economic information on marine protected areas is essential in identifying potential problems and solving or preventing negative impacts. She went on to note that training in socio-economic monitoring, specially adapted to the Caribbean region will provide fisheries/MPA management authorities with a tool to conduct sustainable monitoring of socio-economic conditions at the project MPA sites. Ms. Joseph expressed her hope for the promotion of the use of social and economic data in management decision-making among Caribbean Challenge countries. Finally, she thanked CERMES for facilitating the workshop and the Saint Lucia National Trust for their role in hosting the workshop. She wished participants a productive five days.

At this point, each participant gave brief introductions about themselves and associated agencies.

2 INTRODUCTION TO PROJECT

Maria Pena gave participants an overview of the Caribbean Challenge SocMon project 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 realised with the initiation of the St. Lucia training workshop and would continue with the implementation of the final training workshop in Grenada in early February. Participants were reminded of the workshop goal and objectives. This was followed by an overview of the project's study sites.

3 TRAINING

Maria Pena introduced participants to the SocMon Caribbean methodology for collecting and analysing basic socio-economic data useful for coastal management (Appendix 4). During this session, participants were encouraged to refer to the SocMon Caribbean guidelines and accompanying Socio-economic Manual for Coral Reef Management. It was emphasised 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 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. Emphasis was placed on the use of a variety of non-survey methods useful for collecting and presenting data. Participants were encouraged to use these techniques in their monitoring. A case study was presented to illustrate the application of SocMon Caribbean in Canaries, St. Lucia.

A description of the workshop demonstration study site, the PSEPA; importance of the area for conservation; activities and uses within the area; issues and concerns relevant to the site; projects and studies undertaken or being conducted within the area; and the linkage of SocMon to interests or activities in the site were discussed with participants (Appendix 5). Key points about the PSEPA added by participants included:

- Tourism and charcoal production aren't the only livelihood opportunities in the area
- There is a hiking trail at Moule-a-Chique
- Illegal and unsustainable harvesting of mangroves

-
- Numerous studies have been conducted on the area since the 1980s
 - Bio-physical monitoring (Reef Check) occurs regularly around the Maria Islands
 - PSEPA is the only environmental protection area in St. Lucia. Designated in 1986.

On the first day of the workshop participants initiated preparatory activities for the practical workshop socio-economic assessment of the demonstration site. This included developing the goal and objectives for the assessment exercise, assigning boundaries to the study area and noting available secondary data. In this session, participants worked in two groups. During the afternoon, participants went on a field trip to the PSEPA for preliminary reconnaissance. The field trip was lead by Mr. Sammie.

On the second day, participants were guided in refining the goal and objectives for the study area and were assisted in completing the team work plans and task responsibilities. Participants were introduced to methods for data collection including secondary sources, observation, key informant interviews and household/individual surveys. During this session, the two groups formulated semi-structured interview guides for key informant interviews (Appendix 6) conducted during the second field trip. Each group conducted three key informant interviews.

On Day 3 of the training workshop, an overview of questionnaire design and data analysis of questionnaires was provided. This included an introduction to data coding and the use of Excel and SPSS for data analysis presented by Ms. Katherine Blackman. Since data analysis in SocMon is meant to be simple, instruction focused on the use of pivot tables for generating frequency distributions. The range of visualisation techniques recommended by the SocMon Caribbean methodology (see pages 113 to 144 in the GCRMN manual) were again emphasised as useful options for displaying data collected. The groups then designed individual/household interview surveys (Appendix 7) comprising approximately ten questions to administer to between 5-10 persons during the final field trip for the workshop. Questions designed were to be relevant to the goals and objectives and socio-economic variables chosen for assessment and were to utilise different layouts, i.e. open-ended, dichotomous, close-ended, tick one that applies, tick all that apply, likert scale questions etc. Before finalising the surveys, each group pre-tested their survey on the other group to identify leading, ambiguous or otherwise difficult-to-understand questions.

On Day 4 participants were introduced to validating SocMon results, communication products and pathways for conveying such results to various audiences as well as how to use SocMon outputs. The majority of the day was spent analysing the data from the individual surveys and key informant interviews. Each group was expected to produce a PowerPoint presentation of their SocMon assessment (Appendix 8). Participants completed the preparatory activities worksheets (Appendix 9).

On the final day of the training workshop, each team presented their assessment findings. In the remaining time, participants began to discuss proposals for site monitoring at their respective sites. Participants were given two weeks to complete these proposals for submission to be reviewed by CERMES.

Throughout the duration of the workshop the facilitators video recorded aspects of the training and fieldwork and group exercises. These video clips were used to produce a short

video of the SocMon training and was shown to participants on the final day of the workshop.

4 WORKSHOP EVALUATION

At the end of the workshop, all participants completed a workshop evaluation form in order to provide feedback to the facilitators. See Figures 1-7 for the results.

Generally the workshop was successful with 100% of participants either strongly agreeing or agreeing that:

- The workshop goal had been achieved (Figure 1).
- The first objective of the workshop, introduction to SocMon Caribbean methods, had been achieved (Figure 2).
- The workshop was well organised and facilitated (Figures 3 and 4).
- They would recommend a similar workshop to colleagues (Figure 5).
- Their abilities as MPA professionals or stakeholders had been improved as a result of the workshop (Figure 6).
- They enjoyed participating in the workshop (Figure 7).



Figure 1: Workshop goal was fully achieved

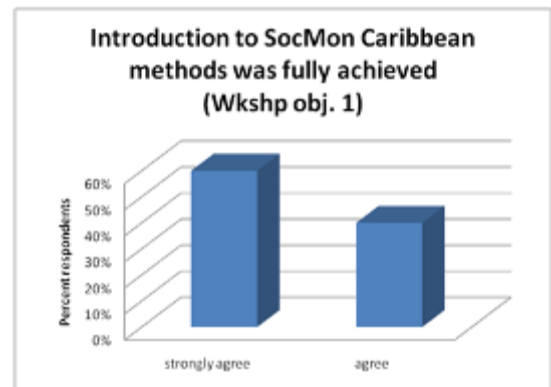


Figure 2: The first objective of the workshop was fully achieved



Figure 3: Workshop organisation



Figure 4: Workshop facilitation



Figure 5: Workshop recommendation



Figure 6: Improvement in professional or stakeholder abilities as a result of the workshop



Figure7: Personal enjoyment of workshop

Greater than half (63%) of the workshop participants believed that the second workshop objective, development of a feasible SocMon site monitoring plan and timeline for the study sites for implementation, was fully achieved. Thirty-eight percent of trainees neither agreed nor disagreed with the evaluation statement. This uncertainty is valid since the development of a thorough and finalised monitoring plan is not achievable in the half-day session provided in workshop. Instead preparations for drafting the plan and in-workshop discussions among participants about proposals for SocMon assessments/monitoring programmes are facilitated.

The majority of the participants (80%) identified things they liked the most about the workshop with sixty percent of responses pertaining to the practical component of the workshop:

- The analysis of the data and preparation of the questionnaire.
- Practical approach to learn by doing; learnt a little bit more about SocMon data analysis.
- The practical aspect.

-
- The practical sessions and group work activities gave the opportunity to share ideas.
 - Practical exercise.
 - Well organised; fully participatory; easily understood at level.
 - Participants were well catered for.

Sixty percent of workshop participants identified things they liked least about the workshop, half of which pertained to what participants felt was short fieldwork experience:

- The field visits were too brief.
- The [field trips] length of time(though lengthy otherwise), it limited interaction with interviewees, site, etc.
- Time was a bit too limited.
- Poor attendance by persons who were invited.
- The location of the workshop (commuting).
- Nothing.

Four participants were unable to identify the things they least liked about the workshop.

Forty percent of participants recommended the following changes to the workshop:

- More and longer hours in the field.
- Greater participation.
- [Workshop] should be a bit longer.
- Bring more countries to learn from each other.

One participant noted that nothing should be changed and the remaining 50% of participants were unable to provide recommendations for changes.

Seventy percent of the SocMon trainees provided additional thoughts, comments or suggestions about the workshop, the majority of which called for follow-up training and the opportunity to present project results to a wider audience:

- There should be follow-up to this workshop at some point in the near future. Also links and networking should be created to share information and update on new course areas and material.
- This training should be done at least every two years for continued capacity building in SocMon throughout the region.
- Follow-up regional workshop to present on all MPAs. Require all MPAs to have a standard set of questions (base) that would allow comparison.
- I think that this is a very useful and beneficial exercise and I would recommend it to my colleagues.
- The workshop met its objectives; it was well presented and was engaging. It would be nice for there to be follow-up.
- Well done.
- Great job, thank you!

APPENDICES

Appendix 1: Agenda

Caribbean Challenge SocMon Training Workshop

16-20 January 2012

Juliette's Lodge, Vieux Fort,

St. Lucia

PROGRAMME

Day and time	Activity
Sunday [15 January]	
Morning	Trainers arrive
Afternoon	Pre-workshop site reconnaissance (trainers)
	Meet with local organiser to finalise workshop preparations
Monday [16 January]	
8:30 – 9:00	Arrivals and check-in (for local participants outside of Vieux Fort) Registration and document distribution
9:00 – 9:20	Opening remarks
9:20 – 9:30	Welcome and introduction of trainers and participants
9:30 – 9:40	Introduction to Caribbean Challenge SocMon Project
9:40 – 9:50	Overview of workshop goals and objectives
9:50 -10:00	Discussion of workshop schedule
10:00 – 10:30	BREAK
10:30 -10:40	What is SocMon? Why do this? Where has SocMon been applied in the Caribbean and globally? Overview of the SocMon process
10:40 – 11:00	SocMon case study presentations
11:00 – 12:00	SocMon Preparatory Activities & Planning and Reconnaissance for socio-economic assessment & monitoring
12:00 – 1:00	LUNCH
1:00 – 3:00	Group discussion: 1. Introduction to demonstration study site [Pointe Sable Environmental Protection Area (PSEPA)] with situation analysis; issues of concern; and review of available secondary data 2. Preparatory activities for PSEPA field scoping in two teams
3:00 – 5:00	1 st field trip to PSEPA for field scoping and de-brief on site. <i>Homework: Prepare 5-10 slides of interesting field scoping photos (per team)</i>
Tuesday [17 January]	
8:30 – 9:00	Slide show and discussion of PSEPA demonstration study site by teams
9:00 – 10:00	Group work: Review and refine study site goals and objectives; boundaries for monitoring; and secondary data
10:00 – 10:30	BREAK
10:30 – 11:00	Develop team work plans and assign responsibility for tasks
11:00 – 12:00	Field Data Collection Data collection methods: secondary sources, key informant interviews, surveys and observation

Day and time	Activity
12:00 – 1:00	LUNCH
1:00 – 3:00	Field Data Collection cont. Group work: Review available secondary sources of data Formulate semi-structured interview guides for key informants
3:00 – 5:00	2 nd field trip to study site for each team to implement work plan: key informant interviews, observation data, photos, transects etc. Team meetings on return to analyse data Homework: Gap analysis
Wednesday [18 January]	
8:30 – 9:00	Review results and experiences of 2 nd field trip in plenary
9:00 – 10:00	Field Data Collection Survey design re-cap: types of questions Data Analysis Developing coding sheet and data table, use of pivot tables Visualisation techniques
10:00 – 10:30	BREAK
10:30 – 12:00	Group work: Teams develop household interview survey, coding sheet and data table
12:00 – 1:00	LUNCH
1:00 – 2:00	Group work: Teams develop household interview survey, coding sheet and data table Pre-test survey in teams
2:00 – 2:30	Print surveys
2:30 – 5:00	3 rd field trip to study site for each team to implement work plan Administer household survey, fill in any gaps from previous site visit Team meetings on return to analyse data Homework: Data entry!
Thursday [19 January]	
8:30 – 9:00	Review results and experiences of 3 rd field trip in plenary
9:30 – 10:00	Post Data Analysis: Validation, Communicating Results and Using SocMon Outputs Group work: Complete data entry Conduct data analysis Discuss interpretation, conclusions, key lessons learned and adaptive management
10:00 – 10:30	BREAK
10:30 – 12:00	Data analysis and interpretation cont. Prepare team presentations
12:00 – 1:00	LUNCH
1:00 – 3:00	Prepare team presentations
3:00 – 4:00	Teams present SocMon findings (key informants and study site representatives invited to participate, validate)
4:00 – 5:00	General discussion, key lessons learned by participants about SocMon Homework: Begin thinking about follow-up studies at PSEPA, PMA and

Day and time	Activity
	SMMA
Friday [20 January]	
8:30 – 10:00	Group discussion of ideas for MPA SocMon site assessment and monitoring programmes
10:00 – 10:30	BREAK
10:30 – 12:00	Participants prepare monitoring plans for their MPA SocMon follow-up studies
12:00 – 1:00	LUNCH
1:00 – 1:30	Presentations of monitoring objectives/plans for MPA follow-up studies Peer review of proposals
1:30 – 2:00	Final discussions, evaluation of workshop and wrap-up
All afternoon	Departures

Appendix 2: Participants

Name	Title	Agency	Email
Nadia Cazaubon	Project Officer	Soufriere Marine Management Area	cazaubon@smma.org.lc
Kaygiana Charlery		Goodwill Fishermen's Co-operative	kaygi362@hotmail.com
Bethia Daniel	SDES Officer	Sustainable Development and Environment Section	bdaniel@sde.gov.lc
Faustinus Faisal	Community Development Officer (South)		faisalfac@yahoo.com
Allena Joseph	Fisheries Biologist	Department of Fisheries	allenajoseph@hotmail.com
Henix Joseph	General Manager	PMA	pmawhs@candw.lc henixj@gmail.com
Shephard Joseph	Fisheries Officer	Department of Fisheries	legaljoe6@hotmail.com
Clinton Labadie	Manager	Southern Tourism Development Corporation	stdc_slu@hotmail.com
Malcolm Mathurin	Projects Officer	Soufriere Regional Development Foundation	mathurin.malcolm@gmail.com
Petronila Polius	Fisheries Officer	Department of Fisheries	ppolius@hotmail.com
Anthony Sammie	Programme Officer	Saint Lucia National Trust	mariaisland@candw.lc
Shirlene Simmons	Conservation Manager	Saint Lucia National Trust	conservationmgr@slunatrust.org
<i>CERMES staff</i>			
Patrick McConney	Senior Lecturer	CERMES, UWI	patrick.mcconney@cavehill.uwi.edu
Maria Pena	Project Assistant	CERMES, UWI	maria.pena@cavehill.uwi.edu
Katherine Blackman	Research Assistant	CERMES, UWI	katherine.blackman@cavehill.uwi.edu

Appendix 3: Caribbean Challenge SocMon project overview

Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Socio-economic Monitoring by Caribbean Challenge MPA Managers (Caribbean Challenge SocMon)

Project Overview



María Peña
Centre for Resource Management and Environmental Studies
The University of the West Indies, Cave Hill Campus



SocMon Training Workshop
16-20 January 2012
Juliette's Lodge, St. Lucia




Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

NFWF Coral Reef Conservation Fund

- **Duration:** 1 Sept. 2011 to 31 Aug. 2012
- **Total value:** USD 126,372 (half from grant)
- **Manager:**
Centre for Resource Management and
Environmental Studies, Cave Hill Campus,
The University of the West Indies, Barbados

Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Project goal and objectives

The goal of the project is to increase the capacity for effective MPA management among Caribbean Challenge countries through the use of social and economic monitoring data in MPA decision-making by:

1. Training approx. 40 MPA managers/staff from 3 CC countries in the practical use of SocMon Caribbean via 3 learning-by-doing country-based workshops
2. Initiation of 8 site assessment and monitoring programs for coastal management (**each via USD 2,500 sub-grant**)
3. Documentation of training and monitoring processes for replication, with improvement, in future rounds of SocMon activity
4. Submission of data to the Reef Base Socio-Economic global database and CaMPAM database for uptake




Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Project sites



St. Lucia: SAMA, TELA, SEPA

Grenada: SGO, WCB

St. Vincent and the Grenadines: SCCA, TCMP

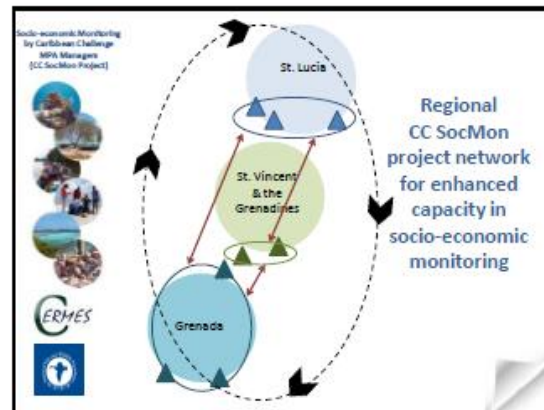
Training workshops:
17-22 Oct 2011 (SVG); 16-20 Jan (SLU) & 6-10 Feb (GDN) 2012




Socio-economic Monitoring by Caribbean Challenge MPA Managers (CC SocMon Project)

SLU CC SocMon who's who – Local network

- SLNT – Anthony Sammie, Shirlene Simmons & Cyril Saltibus
- Department of Fisheries – Allena Joseph, Shepard Joseph, Petronilla Pollus
- SMMA – Newton Eristhee, Nadia Cazaubon
- PMA – Henix Joseph
- SDES – Bertha Daniel
- STDC – Clinton Labadie
- Community development officer (South) – Faustinus Faisel
- NCA
- SRDF
- Fisherman's Cooperative

Socio-economic Monitoring by Caribbean Challenge MPA Managers (CC SocMon Project)

Workshop goal and objectives

Goal:
For MPA managers and field staff to learn how to develop and implement socio-economic monitoring programs for strategically selected sites using SocMon Caribbean methods

Objectives:


1. To introduce socio-economic monitoring using SocMon Caribbean methods
2. To develop a feasible SocMon site monitoring plan and timeline for each study site for implementation



Socio-economic Monitoring by Caribbean Challenge MPA Managers (CC SocMon Project)

SVG workshop outcomes

- Video of training
- TCMP site monitoring plans developed
 - **Goal for monitoring:** *Development of a core set of socio-economic indicators to assist with decision-making and the effective adaptive management of the TCMP*
- SCMCA site monitoring plan under review
 - **Proposed goal for monitoring:** *Collection of socio-economic data to inform management planning*



Appendix 4: SocMon training slides

Socio-economic Monitoring for Coastal Management in the Caribbean (SocMon)




Maria Pena and Katherine Blackman
 CERMES, UWI, Cave Hill Campus
 Caribbean Challenge SocMon training workshop
 Juliette's Lodge Hotel, St. Lucia
 16-20 January 2012



Purpose of this workshop

1. To introduce socio-economic monitoring using SocMon Caribbean methods
2. To develop a feasible SocMon site monitoring plan and timeline for each study site for implementation



What is SocMon?

- Guidelines on how to do socio-economic monitoring useful for fisheries and coastal management at the site level
- SocMon is used with the "Socio-economic Manual for Coral Reef Management" that contains field methods
- CERMES: Regional SocMon centre for English-speaking Caribbean
- Globally six regions are successfully conducting SocMon:

Caribbean
 Central America
 Pacific Islands
 South Asia
 South East Asia
 Western Indian Ocean

}


Region-specific, standardised guidelines for socio-economic monitoring



SocMon Caribbean guidelines: TOC


1. What is this all about?
2. Why should I do this?
3. What's involved?
4. What data do I collect?
5. What do I do with these data?

Appendix A: The variables
 Appendix B: Key informant interviews/secondary sources guide
 Appendix C: Survey guide
 Appendix D: Key informant interviews/secondary sources analysis sheet
 Appendix E: Survey analysis sheet



SocMon manual: TOC

- Introduction
- Chapter 1: Preparatory activities
- Chapter 2: Reconnaissance and planning
- Chapter 3: Field data collection
- Chapter 4: Final data analysis
- Appendix A: Socio-economic parameters
- Appendix B: Sampling approaches
- Glossary
- Suggested readings
- References
- Worksheets



SocMon history

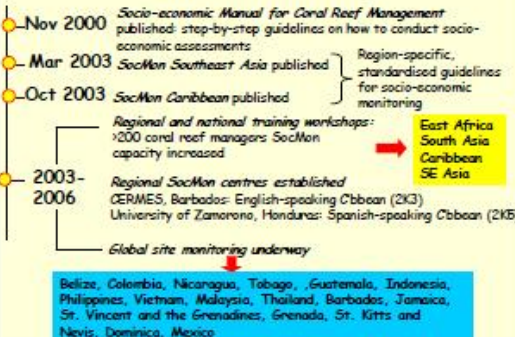
- Nov 2000 Socio-economic Manual for Coral Reef Management published: step-by-step guidelines on how to conduct socio-economic assessments
- Mar 2003 SocMon Southeast Asia published
- Oct 2003 SocMon Caribbean published

Regional and national training workshops: >200 coral reef managers; SocMon capacity increased

Regional SocMon centres established
 CERMES, Barbados: English-speaking Caribbean (2K3)
 University of Zamorano, Honduras: Spanish-speaking Caribbean (2K5)

Global site monitoring underway

Belize, Colombia, Nicaragua, Tobago, Guatemala, Indonesia, Philippines, Vietnam, Malaysia, Thailand, Barbados, Jamaica, St. Vincent and the Grenadines, Grenada, St. Kitts and Nevis, Dominica, Mexico



Why do this? (The Benefits)

- SocMon can help us to understand the socio-economic contexts of coastal resource use by various stakeholders
- This is essential for assessing, predicting and managing coastal resource use over time
- National and regional fisheries, MPA and other management plans call for socio-economic data



Who is SocMon for?

- Coastal managers (Govt. and NGOs)
- Resource user groups
- Community organisations
- Donors / technical assistance
- Academic and research institutions
- Environmental news media / public



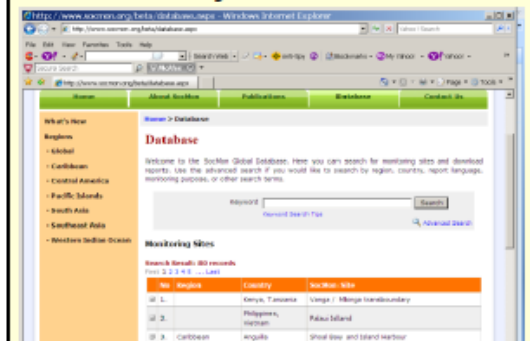
SocMon in the Caribbean



Finding SocMon data: www.socmon.org



The SocMon database provides data and information on ~ 80 coastal monitoring sites



Where are the studies?

- Barbados
 - Graeme Hall Swamp
 - Oistins
- Belize
 - Glovers Reef Marine Reserve
 - Laughing Bird Caye National Park
 - Gladden Spit and Silk Cayes Marine Reserve
- Grenadines Islands
 - Several locations across two countries
- Nicaragua
 - Corn Island lobster fishery
- Trinidad and Tobago
 - Speyside proposed MPA in Tobago
- Nevis
 - The Narrows
- Grenada
 - East coast (La Poterie to La Tante
- Grenadines Islands
 - Several locations across two countries
- St. Vincent
 - Rose Place
- Dominica
 - West coast fishing villages (Colihaut, Bioche, Dublanc)
- Jamaica
 - Negril Marine Park

SocMon project objectives in Caribbean

- Baseline data gathering on coastal communities
- Marine park/protected area management
- Fisheries management planning
- Socio-economic profiles of fisheries
- Enhancing management capacity of stakeholders
- Promoting use of socio-economic data in fisheries management



Typical SocMon project cycle

- Project announcement
 - project description, purpose, duration, expected outputs
- Site selection
 - via application or prior interest or research need
- Multi-stakeholder inception workshop
 - Informs stakeholders about project, project workplan developed/confirmed, buy-in to project



Typical SocMon project cycle

- SocMon training*
- Initiation of site monitoring
 - Data collection
- Validation
 - Provide feedback to stakeholders
- Project reporting
 - Progress reports to funder
 - Site monitoring report
- Data sharing
 - Reef Base



SocMon training

- 3 to 5-day workshop
- Approx. 20 participants
 - Wide stakeholder participation
- Introduction to SocMon Caribbean
 - Guidelines for monitoring
 - Survey and non-survey methods for data collection
 - Field trip to study area/monitoring site (field scoping)
- Planning for monitoring
 - Preparatory activities worksheets
- Monitoring methods

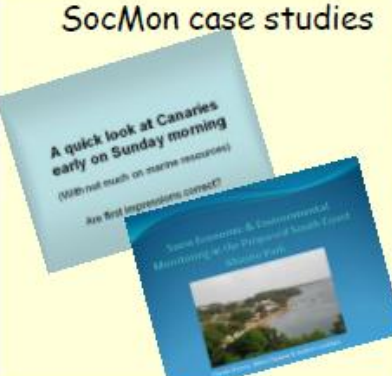

**Longer workshops allow for sample data collection and analysis*

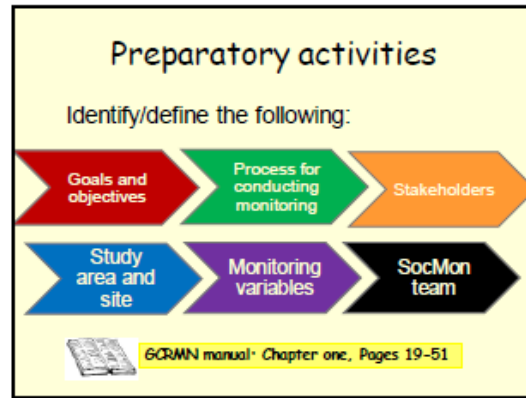
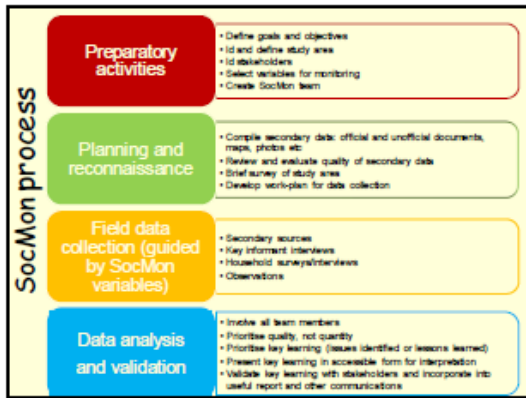


SocMon process

Preparatory activities	<ul style="list-style-type: none"> • Define goals and objectives • Identify and define study area • Select variables for monitoring • Create SocMon team
Planning and reconnaissance	<ul style="list-style-type: none"> • Compile secondary data: official and unofficial documents, maps, photos etc. • Review and evaluate quality of secondary data • Brief survey of study area • Develop workplan for data collection
Field data collection (guided by SocMon variables)	<ul style="list-style-type: none"> • Secondary sources • Key informant interviews • Household surveys/interviews • Observations
Data analysis and validation	<ul style="list-style-type: none"> • Involve all team members • Prioritize quality, not quantity • Prioritize key learning (issues identified or lessons learned) • Present key learning in accessible form for interpretation • Validate key learning with stakeholders and incorporate into useful report and other communications

SocMon case studies

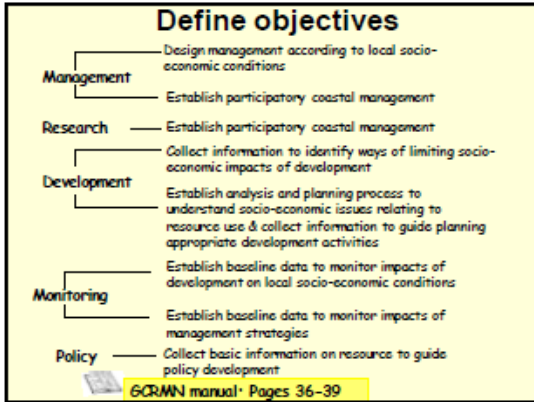


Goal (Purpose of SocMon)	Objectives (Issues of interest)
To collect socio-economic data to inform marine conservation and development decision-making	<ul style="list-style-type: none"> Determine trends in socio-economic benefits from resource use Determine how coastal and marine ecosystems provide benefits Enhance awareness of ecosystem services provided Involve resource users in monitoring

- ### Plans with socio-economic aspects provide rationale for using SocMon
- MPA management plans
 - Fisheries management plans
 - Coastal zone management plans
 - Tourism development plans
 - Physical development plans
 - Poverty alleviation plans


- ### Identify the study area
- Stakeholders ↔ Study area(s)**
- Stakeholder analysis
 - Primary
 - Secondary
 - Interests
 - Organisations
 - MPA and watershed management plans
 - Core coastal area
 - Watershed area
 - Satellite study areas
- GCRMN manual - Pages 21-27

- ### Consult with stakeholders
- Explain purpose, process and outcomes so that stakeholders can participate if they wish
 - Ensure the concerns and priorities of as many stakeholders as is feasible are included in the planning of SocMon
 - Ensure the cooperation of stakeholders, and particularly their organizations, in SocMon
- GCRMN manual - Pages 29-36



Identify SocMon variables

- **60 socio-economic variables**
 - Community-level demographics
 - Coastal and marine activities
 - Governance
 - Attitudes and perceptions
 - Material style of life
- **Prioritise SocMon variables**
 - Goals of socio-economic assessment/monitoring
 - Importance of data collection
 - Site-specific conditions

 **SocMon Caribbean guidelines** Pages 17-24

The SocMon team

- ✓ Coastal manager
- ✓ Social scientist
- ✓ Local advisors
- ✓ Field researchers
 - Interdisciplinary
 - About 5-7 people
 - Meets regularly




SocMon process

- Preparatory activities**
 - Define goals and objectives
 - ID and define study area
 - ID stakeholders
 - Select variables for monitoring
 - Create SocMon team
- Planning and reconnaissance**
 - Compile secondary data: official and unofficial documents, maps, photos etc.
 - Review and evaluate quality of secondary data
 - Brief survey of study area
 - Develop work-plan for data collection
- Field data collection (guided by SocMon variables)**
 - Secondary sources
 - Key informant interviews
 - Household surveys/interviews
 - Observations
- Data analysis and validation**
 - Involve all team members
 - Prioritise quality, not quantity
 - Prioritise key learning (issues identified or lessons learned)
 - Present key learning in accessible form for interpretation
 - Validate key learning with stakeholders and incorporate into useful report and other communications


Secondary data

- Compile relevant data
 - official and unofficial documents (including newspapers)
 - statistical reports (e.g. census reports)
 - research reports
 - maps
 - aerial photos & satellite images
 - previous/ongoing project reports
 - historical documents and accounts
 - websites
- Review the data
- Evaluate the quality of the data
- *** More in Data Collection**

 **GCRMN manual** Pages 53-57

Reconnaissance survey

- Brief survey of study area
 - Finalise study site selection for data collection
 - Preliminary information on the # and location of stakeholders
 - ID logistics and arrange field data collection
 - Refine SocMon study objectives & variables (if necessary), study area and sites


 **GCRMN manual** Pages 57-61

30

Planning field data collection: Work-plan

The work-plan defines the:


- SocMon activities;
- methods & visualisation techniques to be used;
- resources required;
- timing and target dates;
- team responsibilities;
- data processing, reporting

 GCRMN manual: Pages 62-82

SocMon process

Preparatory activities	<ul style="list-style-type: none"> • Define goals and objectives • Identify and define study area • Identify stakeholders • Select variables for monitoring • Create SocMon team
Planning and reconnaissance	<ul style="list-style-type: none"> • Compile secondary data: official and unofficial documents, maps, photos etc. • Review and evaluate quality of secondary data • Brief survey of study area • Develop work-plan for data collection
Field data collection (guided by SocMon variables)	<ul style="list-style-type: none"> • Secondary sources • Key informant interviews • Household surveys/interviews • Observations
Data analysis and validation	<ul style="list-style-type: none"> • Involve all team members • Prioritise quality, not quantity • Present key learning (issues identified or lessons learned) • Present key learning in accessible form for interpretation • Validate key learning with stakeholders and incorporate into useful reports and other communications

What Data Do I Collect ?



So many socioeconomic variables to choose from!

*See SocMon Caribbean Guidelines

33

Sources of data

- **Secondary sources**
 - Existing documents, maps, data, etc.
 - Compiling a bibliography, keep it updated
- **Key informants**
 - People knowledgeable on particular topics
 - Use to fill in gaps, profile places, activities
- **Household interviews**
 - Survey questions for specific standard info
 - Interview households in selected settlements
- **Observations**
 - Notes and records, often now done by photos
 - Develop a digital image library, link to GIS

34

Secondary data and data from key informants is used to:


- refine the lists of objectives, stakeholder groups, study sites and parameters **[planning]**
- identify gaps in existing knowledge in preparation for field data collection **[questions]**
- ensure the field data collection does not collect information that has already been collected **[efficiency]**
- provide a basis for cross-checking information collected during the field data collection **[validation]**

35

Socio-economic variables

• See Appendix A in SocMon Caribbean Guidelines

- Variables set out according to:
 - What it is
 - How to collect the data
 - How to analyse the data
 - How the information can be useful to managers

 SocMon Caribbean guidelines: Appendix A 45-52

What Data Do I Collect? Community Level Demographics

K1. Study area	K7. Education
K2. Population	K8. Literacy
K3. Number of households	K9. Ethnicity
K4. Migration rate	K10. Religion
K5. Age	K11. Language
K6. Gender	K12. Occupation
	K13. Community infrastructure and business development



SocMon Caribbean guidelines
Pages 18, 20 & Appendix A 29-35

What Data Do I Collect? Coastal and Marine Activities

K14. Activities	K19. Use patterns
K15. Goods and services	K20. Levels and types of impact
K16. Types of use	K21. Level of use by outsiders
K17. Value of goods and services	K22. Household use
K18. Goods and services market orientation	K23. Stakeholders
	K24. Tourist profile



SocMon Caribbean guidelines
Pages 18, 21 & Appendix A 36-45

What Data Do I Collect? Governance

- K25. Management body
- K26. Management plan
- K27. Enabling legislation
- K28. Management resources
- K29. Formal tenure and rules
- K30. Informal tenure and rules, customs and traditions
- K31. Stakeholder participation
- K32. Community and stakeholder groups



SocMon Caribbean guidelines
Pages 18, 21 & Appendix A 45-52

What (Survey) Data Do I Collect ? Household demographics

S1. Age	S9. Household income
S2. Gender	S10. Household activities
S3. Ethnicity	S11. Household goods and services
S4. Education	S12. Types of household uses
S5. Religion	S13. Household market orientation
S6. Language	S14. Household uses
S7. Occupation	
S8. Household size	



SocMon Caribbean guidelines
Pages 19, 22 & Appendix A 53-59

What (Survey) Data Do I Collect ? Attitudes and Perceptions

- S15. Non-market and non-use values
- S16. Perceptions of resource conditions
- S17. Perceived threats
- S18. Awareness of rules and regulations
- S19. Compliance
- S20. Enforcement
- S21. Participation in decision-making
- S22. Membership in stakeholder groups



SocMon Caribbean guidelines
Pages 19, 23 & Appendix A 59-68

What (Survey) Data Do I Collect ? Attitudes and Perceptions


- S23. Perceived coastal management problems
- S24. Perceived coastal management solutions
- S25. Perceived community problems
- S26. Successes in coastal management
- S27. Challenges in coastal management
- S28. Material style of life



SocMon Caribbean guidelines
Pages 19, 23 & Appendix A 59-68

How do I collect the data?

- Observation
- Semi-structured interviews
- Group interviews
- Oral histories
- Surveys
- *Visualisation techniques
 - maps
 - transects
 - timelines
 - seasonal calendars
 - historical transects
 - decision trees
 - venn diagrams
 - flow charts
 - ranking
 - field analysis



6CRMN manual Chapter 3, Pages 92-148

Mapping, photos, (maybe GIS)

- Resource features
- Resource uses
- Infrastructure
- Areas of conflict
- Demographics
- Reference sites
- Boundaries, zones
- Etc., etc., etc.

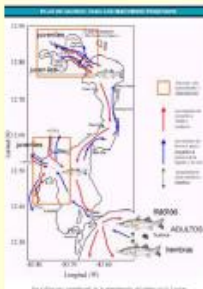


44



Combine local knowledge with science information

- Climatic conditions
- Life histories, cycles
- Species harvested
- Fishing vessels used
- Fishing methods used
- Processing of catch
- Trade and income
- Fish consumption
- Alternative livelihoods
- Culture and religion



45

SocMon process

- Preparatory activities**
 - Define goals and objectives
 - Identify and define study area
 - Identify stakeholders
 - Select variables for monitoring
 - Create SocMon team
- Planning and reconnaissance**
 - Compile secondary data: official and unofficial documents, maps, photos etc.
 - Review and evaluate quality of secondary data
 - Final survey of study area
 - Develop script/plan for data collection
- Field data collection (guided by SocMon variables)**
 - Secondary sources
 - Key informant interviews
 - Household surveys/interviews
 - Observations
- Data analysis and validation**
 - Involve all team members
 - Prioritize quality, not quantity
 - Prioritize key learning (issues identified or lessons learned)
 - Present key learning in accessible form for interpretation
 - Validate key learning with stakeholders and incorporate into useful report and other communications

SocMon results /analysis tables

Occupation	PRIMARY		SECONDARY		Total percent of community members dependent on this occupation (primary and secondary)
	Number of household members listed as primary occupation	Percent household members that listed as primary occupation	Number listed as secondary occupation	Percent household members that listed as secondary occupation	
Fishing	44	32.4%	50	37.5%	70%
Wetland management	50	37.5%	30	22.5%	60%
Agriculture	30	22.5%	100	75%	97.5%
Transport and utility services	0	0%	30	22.5%	22.5%
Nonoccupations**	50	37.5%	0	0%	37.5%
Total	130	100%	130	100%	100%

* Record together all occupations that were listed by >5% of the household members for example, unemployed, students, retired

** Nonoccupations

SocMon Caribbean guidelines Page 54

SocMon results /analysis tables

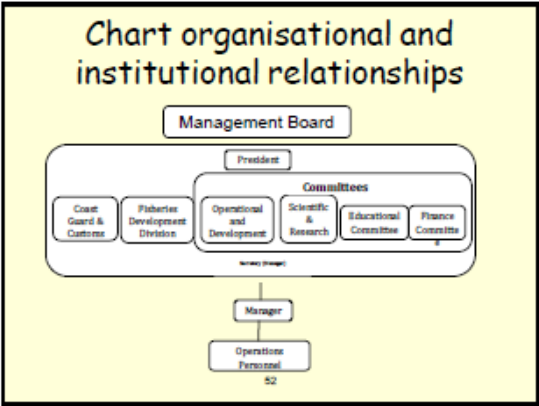
Major occupations in community	Percent of working population conducting this occupation as primary occupation	Number of people conducting this occupation as primary occupation	Percent of working population conducting this occupation as secondary occupation	Percent of working population conducting this occupation as tertiary occupation
1. culture	40%	400	20%	10%
2. restaurants/spa services	30%	300	15%	5%
3. agricultural workers	20%	200	10%	5%
4. hotel workers	15%	150	10%	5%
5. tourism	10%	100	30%	45%

SocMon Caribbean guidelines Page 34

SocMon results /analysis tables

Coastal and Marine Activities	Coastal and Marine Goods and Services	Types of Use (primary)	Coastal and Marine Activities	Coastal and Marine Goods and Services	Value of Goods and Services
Fisheries	lobster	Trap	Fisheries	lobster	High
	groupers	Handline		groupers	High
Tourism	Hotel	guest houses (1-7 rooms)	Tourism	Hotel	Medium
	diving	SCUBA		diving	Low
Aqua-culture	Oyster	Lime	Aqua-culture	Oyster	Medium

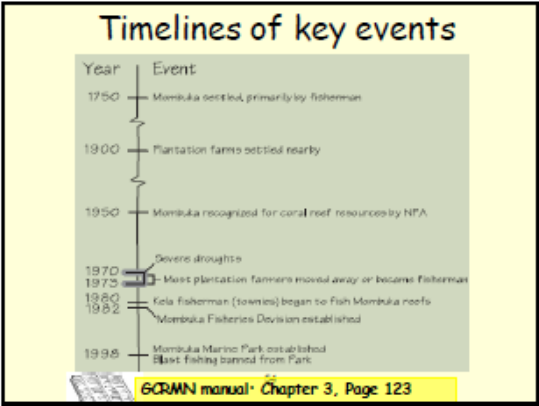
SocMon Caribbean guidelines Pages 37 & 38

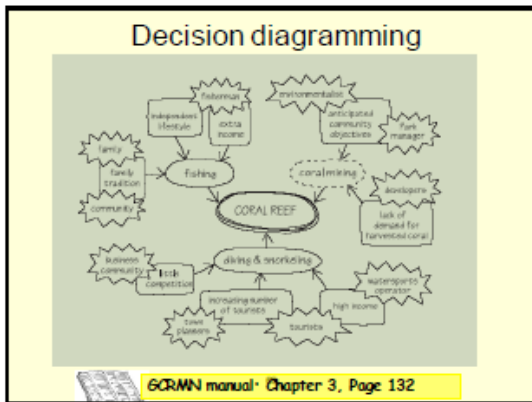
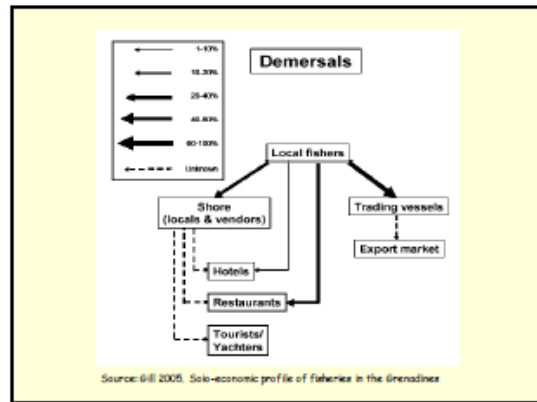
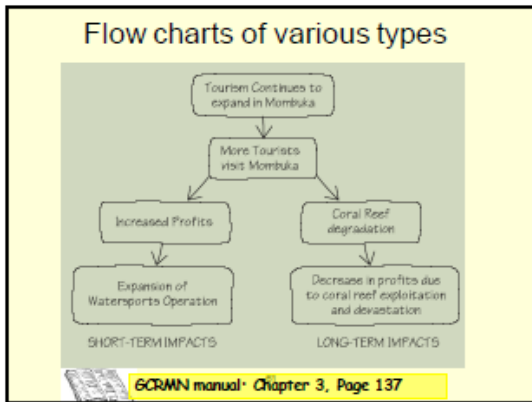


Local knowledge and classification

Description/English name	Species	Relative abundance	Changes in cover (%)	Habitat	Name in local language
Clam (very large, almost smooth)	unknown	+	+	mud / mangrove	kai
Big spider shell	Lamella lamda	+	0	reef	spider
Clam (large, white, vertical ridges)	unknown	+	0	reef	kai
Clam (large, brown, cross ridges)	Anadara spp	+	+	mud	kai nappa
Flour/oyster	Pectinis marginifera	+	0	sand / mud	vililla ili
Limpet	Colobla striata	+	+	coral islands	kai nai
Sunlet shell	Argopecten irradians	+	+	beach / mud	kai ai
Small top shell	Trochus maculatus	+	0	reef edge	pete
Clam (tiny, sharp, smooth)	unknown	+	0	sand/beach, near rocks	isa
Cone shell	unknown	+	0	reef	haskusa
Pen shell	Perna perna	+	0	sand / mud	mangai
Cape	unknown	+	0	sand	vililla

GCRMN manual Chapter 3, Page 143





How to Analyze: Secondary Data, Key Informant info, Household Interviews, Observations

Basic principles for analysis:

- involve all team members
- prioritize quality, not quantity
- prioritize key learning, rather than just getting information

• **Key learning** refers to issues identified or lessons learned that are essential to the objectives of the monitoring, or are needed to understand the socioeconomic context of the stakeholders

How to Analyze: Secondary Data, Key Informant info, Household Interviews, Observations

Final data analysis involves:

- refining the key learning
- using data to illustrate key learning
- presenting the key learning in an accessible form for interpretation
- validating the key learning with stakeholders
- incorporating the key learning into a useful report and other communications

Validation workshop

- Verification of data analysis
- Feedback to participants
- Encourage decision-making
- Foster trust and respect
- Accountability, transparency
- Pave way for follow-up
- Community empowerment

Communication choices

- written material (*report, GCFI paper*)
- visual material (*posters, pictures*)
- oral presentations (*area meetings*)
- one-on-one discussion (*animators*)
- mass media (*newspaper, radio, TV*)
- internet group discussion (*CAMPAM*)
- electronic bulletin boards (*NCRPS?*)

27

Using SocMon outputs

- MPA management decision-making
- Stakeholder strategies (fishers, hotels)
- Designing sustainable monitoring
- Prioritising future research
- Preparing project proposals
- Area development planning
- Social improvement plans
- External agency guidance



28

Thank You




Centre for Resource Management
and Environmental Studies
The University of the West Indies
Cave Hill Campus
Barbados

Appendix 5: Demonstration study site overview

Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

SocMon demonstration study site: Pointe Sable Environmental Protection Area



POINTE SABLE MANAGEMENT AREA

Legend


- 1. Mangrove Area
- 2. Seagrass Area
- 3. Marine Reserve
- 4. Ramsar Site
- 5. National Landmark
- 6. Historical Site
- 7. Wildlife Reserve
- 8. Marine Reserve
- 9. Ramsar Site
- 10. National Landmark
- 11. Historical Site
- 12. Wildlife Reserve
- 13. Marine Reserve
- 14. Ramsar Site
- 15. National Landmark
- 16. Historical Site
- 17. Wildlife Reserve
- 18. Marine Reserve
- 19. Ramsar Site
- 20. National Landmark
- 21. Historical Site
- 22. Wildlife Reserve
- 23. Marine Reserve
- 24. Ramsar Site
- 25. National Landmark
- 26. Historical Site
- 27. Wildlife Reserve
- 28. Marine Reserve
- 29. Ramsar Site
- 30. National Landmark
- 31. Historical Site
- 32. Wildlife Reserve
- 33. Marine Reserve
- 34. Ramsar Site
- 35. National Landmark
- 36. Historical Site
- 37. Wildlife Reserve
- 38. Marine Reserve
- 39. Ramsar Site
- 40. National Landmark
- 41. Historical Site
- 42. Wildlife Reserve
- 43. Marine Reserve
- 44. Ramsar Site
- 45. National Landmark
- 46. Historical Site
- 47. Wildlife Reserve
- 48. Marine Reserve
- 49. Ramsar Site
- 50. National Landmark
- 51. Historical Site
- 52. Wildlife Reserve
- 53. Marine Reserve
- 54. Ramsar Site
- 55. National Landmark
- 56. Historical Site
- 57. Wildlife Reserve
- 58. Marine Reserve
- 59. Ramsar Site
- 60. National Landmark
- 61. Historical Site
- 62. Wildlife Reserve
- 63. Marine Reserve
- 64. Ramsar Site
- 65. National Landmark
- 66. Historical Site
- 67. Wildlife Reserve
- 68. Marine Reserve
- 69. Ramsar Site
- 70. National Landmark
- 71. Historical Site
- 72. Wildlife Reserve
- 73. Marine Reserve
- 74. Ramsar Site
- 75. National Landmark
- 76. Historical Site
- 77. Wildlife Reserve
- 78. Marine Reserve
- 79. Ramsar Site
- 80. National Landmark
- 81. Historical Site
- 82. Wildlife Reserve
- 83. Marine Reserve
- 84. Ramsar Site
- 85. National Landmark
- 86. Historical Site
- 87. Wildlife Reserve
- 88. Marine Reserve
- 89. Ramsar Site
- 90. National Landmark
- 91. Historical Site
- 92. Wildlife Reserve
- 93. Marine Reserve
- 94. Ramsar Site
- 95. National Landmark
- 96. Historical Site
- 97. Wildlife Reserve
- 98. Marine Reserve
- 99. Ramsar Site
- 100. National Landmark
- 101. Historical Site
- 102. Wildlife Reserve
- 103. Marine Reserve
- 104. Ramsar Site
- 105. National Landmark
- 106. Historical Site
- 107. Wildlife Reserve
- 108. Marine Reserve
- 109. Ramsar Site
- 110. National Landmark
- 111. Historical Site
- 112. Wildlife Reserve
- 113. Marine Reserve
- 114. Ramsar Site
- 115. National Landmark
- 116. Historical Site
- 117. Wildlife Reserve
- 118. Marine Reserve
- 119. Ramsar Site
- 120. National Landmark
- 121. Historical Site
- 122. Wildlife Reserve
- 123. Marine Reserve
- 124. Ramsar Site
- 125. National Landmark
- 126. Historical Site
- 127. Wildlife Reserve
- 128. Marine Reserve
- 129. Ramsar Site
- 130. National Landmark
- 131. Historical Site
- 132. Wildlife Reserve
- 133. Marine Reserve
- 134. Ramsar Site
- 135. National Landmark
- 136. Historical Site
- 137. Wildlife Reserve
- 138. Marine Reserve
- 139. Ramsar Site
- 140. National Landmark
- 141. Historical Site
- 142. Wildlife Reserve
- 143. Marine Reserve
- 144. Ramsar Site
- 145. National Landmark
- 146. Historical Site
- 147. Wildlife Reserve
- 148. Marine Reserve
- 149. Ramsar Site
- 150. National Landmark
- 151. Historical Site
- 152. Wildlife Reserve
- 153. Marine Reserve
- 154. Ramsar Site
- 155. National Landmark
- 156. Historical Site
- 157. Wildlife Reserve
- 158. Marine Reserve
- 159. Ramsar Site
- 160. National Landmark
- 161. Historical Site
- 162. Wildlife Reserve
- 163. Marine Reserve
- 164. Ramsar Site
- 165. National Landmark
- 166. Historical Site
- 167. Wildlife Reserve
- 168. Marine Reserve
- 169. Ramsar Site
- 170. National Landmark
- 171. Historical Site
- 172. Wildlife Reserve
- 173. Marine Reserve
- 174. Ramsar Site
- 175. National Landmark
- 176. Historical Site
- 177. Wildlife Reserve
- 178. Marine Reserve
- 179. Ramsar Site
- 180. National Landmark
- 181. Historical Site
- 182. Wildlife Reserve
- 183. Marine Reserve
- 184. Ramsar Site
- 185. National Landmark
- 186. Historical Site
- 187. Wildlife Reserve
- 188. Marine Reserve
- 189. Ramsar Site
- 190. National Landmark
- 191. Historical Site
- 192. Wildlife Reserve
- 193. Marine Reserve
- 194. Ramsar Site
- 195. National Landmark
- 196. Historical Site
- 197. Wildlife Reserve
- 198. Marine Reserve
- 199. Ramsar Site
- 200. National Landmark
- 201. Historical Site
- 202. Wildlife Reserve
- 203. Marine Reserve
- 204. Ramsar Site
- 205. National Landmark
- 206. Historical Site
- 207. Wildlife Reserve
- 208. Marine Reserve
- 209. Ramsar Site
- 210. National Landmark
- 211. Historical Site
- 212. Wildlife Reserve
- 213. Marine Reserve
- 214. Ramsar Site
- 215. National Landmark
- 216. Historical Site
- 217. Wildlife Reserve
- 218. Marine Reserve
- 219. Ramsar Site
- 220. National Landmark
- 221. Historical Site
- 222. Wildlife Reserve
- 223. Marine Reserve
- 224. Ramsar Site
- 225. National Landmark
- 226. Historical Site
- 227. Wildlife Reserve
- 228. Marine Reserve
- 229. Ramsar Site
- 230. National Landmark
- 231. Historical Site
- 232. Wildlife Reserve
- 233. Marine Reserve
- 234. Ramsar Site
- 235. National Landmark
- 236. Historical Site
- 237. Wildlife Reserve
- 238. Marine Reserve
- 239. Ramsar Site
- 240. National Landmark
- 241. Historical Site
- 242. Wildlife Reserve
- 243. Marine Reserve
- 244. Ramsar Site
- 245. National Landmark
- 246. Historical Site
- 247. Wildlife Reserve
- 248. Marine Reserve
- 249. Ramsar Site
- 250. National Landmark
- 251. Historical Site
- 252. Wildlife Reserve
- 253. Marine Reserve
- 254. Ramsar Site
- 255. National Landmark
- 256. Historical Site
- 257. Wildlife Reserve
- 258. Marine Reserve
- 259. Ramsar Site
- 260. National Landmark
- 261. Historical Site
- 262. Wildlife Reserve
- 263. Marine Reserve
- 264. Ramsar Site
- 265. National Landmark
- 266. Historical Site
- 267. Wildlife Reserve
- 268. Marine Reserve
- 269. Ramsar Site
- 270. National Landmark
- 271. Historical Site
- 272. Wildlife Reserve
- 273. Marine Reserve
- 274. Ramsar Site
- 275. National Landmark
- 276. Historical Site
- 277. Wildlife Reserve
- 278. Marine Reserve
- 279. Ramsar Site
- 280. National Landmark
- 281. Historical Site
- 282. Wildlife Reserve
- 283. Marine Reserve
- 284. Ramsar Site
- 285. National Landmark
- 286. Historical Site
- 287. Wildlife Reserve
- 288. Marine Reserve
- 289. Ramsar Site
- 290. National Landmark
- 291. Historical Site
- 292. Wildlife Reserve
- 293. Marine Reserve
- 294. Ramsar Site
- 295. National Landmark
- 296. Historical Site
- 297. Wildlife Reserve
- 298. Marine Reserve
- 299. Ramsar Site
- 300. National Landmark
- 301. Historical Site
- 302. Wildlife Reserve
- 303. Marine Reserve
- 304. Ramsar Site
- 305. National Landmark
- 306. Historical Site
- 307. Wildlife Reserve
- 308. Marine Reserve
- 309. Ramsar Site
- 310. National Landmark
- 311. Historical Site
- 312. Wildlife Reserve
- 313. Marine Reserve
- 314. Ramsar Site
- 315. National Landmark
- 316. Historical Site
- 317. Wildlife Reserve
- 318. Marine Reserve
- 319. Ramsar Site
- 320. National Landmark
- 321. Historical Site
- 322. Wildlife Reserve
- 323. Marine Reserve
- 324. Ramsar Site
- 325. National Landmark
- 326. Historical Site
- 327. Wildlife Reserve
- 328. Marine Reserve
- 329. Ramsar Site
- 330. National Landmark
- 331. Historical Site
- 332. Wildlife Reserve
- 333. Marine Reserve
- 334. Ramsar Site
- 335. National Landmark
- 336. Historical Site
- 337. Wildlife Reserve
- 338. Marine Reserve
- 339. Ramsar Site
- 340. National Landmark
- 341. Historical Site
- 342. Wildlife Reserve
- 343. Marine Reserve
- 344. Ramsar Site
- 345. National Landmark
- 346. Historical Site
- 347. Wildlife Reserve
- 348. Marine Reserve
- 349. Ramsar Site
- 350. National Landmark
- 351. Historical Site
- 352. Wildlife Reserve
- 353. Marine Reserve
- 354. Ramsar Site
- 355. National Landmark
- 356. Historical Site
- 357. Wildlife Reserve
- 358. Marine Reserve
- 359. Ramsar Site
- 360. National Landmark
- 361. Historical Site
- 362. Wildlife Reserve
- 363. Marine Reserve
- 364. Ramsar Site
- 365. National Landmark
- 366. Historical Site
- 367. Wildlife Reserve
- 368. Marine Reserve
- 369. Ramsar Site
- 370. National Landmark
- 371. Historical Site
- 372. Wildlife Reserve
- 373. Marine Reserve
- 374. Ramsar Site
- 375. National Landmark
- 376. Historical Site
- 377. Wildlife Reserve
- 378. Marine Reserve
- 379. Ramsar Site
- 380. National Landmark
- 381. Historical Site
- 382. Wildlife Reserve
- 383. Marine Reserve
- 384. Ramsar Site
- 385. National Landmark
- 386. Historical Site
- 387. Wildlife Reserve
- 388. Marine Reserve
- 389. Ramsar Site
- 390. National Landmark
- 391. Historical Site
- 392. Wildlife Reserve
- 393. Marine Reserve
- 394. Ramsar Site
- 395. National Landmark
- 396. Historical Site
- 397. Wildlife Reserve
- 398. Marine Reserve
- 399. Ramsar Site
- 400. National Landmark
- 401. Historical Site
- 402. Wildlife Reserve
- 403. Marine Reserve
- 404. Ramsar Site
- 405. National Landmark
- 406. Historical Site
- 407. Wildlife Reserve
- 408. Marine Reserve
- 409. Ramsar Site
- 410. National Landmark
- 411. Historical Site
- 412. Wildlife Reserve
- 413. Marine Reserve
- 414. Ramsar Site
- 415. National Landmark
- 416. Historical Site
- 417. Wildlife Reserve
- 418. Marine Reserve
- 419. Ramsar Site
- 420. National Landmark
- 421. Historical Site
- 422. Wildlife Reserve
- 423. Marine Reserve
- 424. Ramsar Site
- 425. National Landmark
- 426. Historical Site
- 427. Wildlife Reserve
- 428. Marine Reserve
- 429. Ramsar Site
- 430. National Landmark
- 431. Historical Site
- 432. Wildlife Reserve
- 433. Marine Reserve
- 434. Ramsar Site
- 435. National Landmark
- 436. Historical Site
- 437. Wildlife Reserve
- 438. Marine Reserve
- 439. Ramsar Site
- 440. National Landmark
- 441. Historical Site
- 442. Wildlife Reserve
- 443. Marine Reserve
- 444. Ramsar Site
- 445. National Landmark
- 446. Historical Site
- 447. Wildlife Reserve
- 448. Marine Reserve
- 449. Ramsar Site
- 450. National Landmark
- 451. Historical Site
- 452. Wildlife Reserve
- 453. Marine Reserve
- 454. Ramsar Site
- 455. National Landmark
- 456. Historical Site
- 457. Wildlife Reserve
- 458. Marine Reserve
- 459. Ramsar Site
- 460. National Landmark
- 461. Historical Site
- 462. Wildlife Reserve
- 463. Marine Reserve
- 464. Ramsar Site
- 465. National Landmark
- 466. Historical Site
- 467. Wildlife Reserve
- 468. Marine Reserve
- 469. Ramsar Site
- 470. National Landmark
- 471. Historical Site
- 472. Wildlife Reserve
- 473. Marine Reserve
- 474. Ramsar Site
- 475. National Landmark
- 476. Historical Site
- 477. Wildlife Reserve
- 478. Marine Reserve
- 479. Ramsar Site
- 480. National Landmark
- 481. Historical Site
- 482. Wildlife Reserve
- 483. Marine Reserve
- 484. Ramsar Site
- 485. National Landmark
- 486. Historical Site
- 487. Wildlife Reserve
- 488. Marine Reserve
- 489. Ramsar Site
- 490. National Landmark
- 491. Historical Site
- 492. Wildlife Reserve
- 493. Marine Reserve
- 494. Ramsar Site
- 495. National Landmark
- 496. Historical Site
- 497. Wildlife Reserve
- 498. Marine Reserve
- 499. Ramsar Site
- 500. National Landmark
- 501. Historical Site
- 502. Wildlife Reserve
- 503. Marine Reserve
- 504. Ramsar Site
- 505. National Landmark
- 506. Historical Site
- 507. Wildlife Reserve
- 508. Marine Reserve
- 509. Ramsar Site
- 510. National Landmark
- 511. Historical Site
- 512. Wildlife Reserve
- 513. Marine Reserve
- 514. Ramsar Site
- 515. National Landmark
- 516. Historical Site
- 517. Wildlife Reserve
- 518. Marine Reserve
- 519. Ramsar Site
- 520. National Landmark
- 521. Historical Site
- 522. Wildlife Reserve
- 523. Marine Reserve
- 524. Ramsar Site
- 525. National Landmark
- 526. Historical Site
- 527. Wildlife Reserve
- 528. Marine Reserve
- 529. Ramsar Site
- 530. National Landmark
- 531. Historical Site
- 532. Wildlife Reserve
- 533. Marine Reserve
- 534. Ramsar Site
- 535. National Landmark
- 536. Historical Site
- 537. Wildlife Reserve
- 538. Marine Reserve
- 539. Ramsar Site
- 540. National Landmark
- 541. Historical Site
- 542. Wildlife Reserve
- 543. Marine Reserve
- 544. Ramsar Site
- 545. National Landmark
- 546. Historical Site
- 547. Wildlife Reserve
- 548. Marine Reserve
- 549. Ramsar Site
- 550. National Landmark
- 551. Historical Site
- 552. Wildlife Reserve
- 553. Marine Reserve
- 554. Ramsar Site
- 555. National Landmark
- 556. Historical Site
- 557. Wildlife Reserve
- 558. Marine Reserve
- 559. Ramsar Site
- 560. National Landmark
- 561. Historical Site
- 562. Wildlife Reserve
- 563. Marine Reserve
- 564. Ramsar Site
- 565. National Landmark
- 566. Historical Site
- 567. Wildlife Reserve
- 568. Marine Reserve
- 569. Ramsar Site
- 570. National Landmark
- 571. Historical Site
- 572. Wildlife Reserve
- 573. Marine Reserve
- 574. Ramsar Site
- 575. National Landmark
- 576. Historical Site
- 577. Wildlife Reserve
- 578. Marine Reserve
- 579. Ramsar Site
- 580. National Landmark
- 581. Historical Site
- 582. Wildlife Reserve
- 583. Marine Reserve
- 584. Ramsar Site
- 585. National Landmark
- 586. Historical Site
- 587. Wildlife Reserve
- 588. Marine Reserve
- 589. Ramsar Site
- 590. National Landmark
- 591. Historical Site
- 592. Wildlife Reserve
- 593. Marine Reserve
- 594. Ramsar Site
- 595. National Landmark
- 596. Historical Site
- 597. Wildlife Reserve
- 598. Marine Reserve
- 599. Ramsar Site
- 600. National Landmark
- 601. Historical Site
- 602. Wildlife Reserve
- 603. Marine Reserve
- 604. Ramsar Site
- 605. National Landmark
- 606. Historical Site
- 607. Wildlife Reserve
- 608. Marine Reserve
- 609. Ramsar Site
- 610. National Landmark
- 611. Historical Site
- 612. Wildlife Reserve
- 613. Marine Reserve
- 614. Ramsar Site
- 615. National Landmark
- 616. Historical Site
- 617. Wildlife Reserve
- 618. Marine Reserve
- 619. Ramsar Site
- 620. National Landmark
- 621. Historical Site
- 622. Wildlife Reserve
- 623. Marine Reserve
- 624. Ramsar Site
- 625. National Landmark
- 626. Historical Site
- 627. Wildlife Reserve
- 628. Marine Reserve
- 629. Ramsar Site
- 630. National Landmark
- 631. Historical Site
- 632. Wildlife Reserve
- 633. Marine Reserve
- 634. Ramsar Site
- 635. National Landmark
- 636. Historical Site
- 637. Wildlife Reserve
- 638. Marine Reserve
- 639. Ramsar Site
- 640. National Landmark
- 641. Historical Site
- 642. Wildlife Reserve
- 643. Marine Reserve
- 644. Ramsar Site
- 645. National Landmark
- 646. Historical Site
- 647. Wildlife Reserve
- 648. Marine Reserve
- 649. Ramsar Site
- 650. National Landmark
- 651. Historical Site
- 652. Wildlife Reserve
- 653. Marine Reserve
- 654. Ramsar Site
- 655. National Landmark
- 656. Historical Site
- 657. Wildlife Reserve
- 658. Marine Reserve
- 659. Ramsar Site
- 660. National Landmark
- 661. Historical Site
- 662. Wildlife Reserve
- 663. Marine Reserve
- 664. Ramsar Site
- 665. National Landmark
- 666. Historical Site
- 667. Wildlife Reserve
- 668. Marine Reserve
- 669. Ramsar Site
- 670. National Landmark
- 671. Historical Site
- 672. Wildlife Reserve
- 673. Marine Reserve
- 674. Ramsar Site
- 675. National Landmark
- 676. Historical Site
- 677. Wildlife Reserve
- 678. Marine Reserve
- 679. Ramsar Site
- 680. National Landmark
- 681. Historical Site
- 682. Wildlife Reserve
- 683. Marine Reserve
- 684. Ramsar Site
- 685. National Landmark
- 686. Historical Site
- 687. Wildlife Reserve
- 688. Marine Reserve
- 689. Ramsar Site
- 690. National Landmark
- 691. Historical Site
- 692. Wildlife Reserve
- 693. Marine Reserve
- 694. Ramsar Site
- 695. National Landmark
- 696. Historical Site
- 697. Wildlife Reserve
- 698. Marine Reserve
- 699. Ramsar Site
- 700. National Landmark
- 701. Historical Site
- 702. Wildlife Reserve
- 703. Marine Reserve
- 704. Ramsar Site
- 705. National Landmark
- 706. Historical Site
- 707. Wildlife Reserve
- 708. Marine Reserve
- 709. Ramsar Site
- 710. National Landmark
- 711. Historical Site
- 712. Wildlife Reserve
- 713. Marine Reserve
- 714. Ramsar Site
- 715. National Landmark
- 716. Historical Site
- 717. Wildlife Reserve
- 718. Marine Reserve
- 719. Ramsar Site
- 720. National Landmark
- 721. Historical Site
- 722. Wildlife Reserve
- 723. Marine Reserve
- 724. Ramsar Site
- 725. National Landmark
- 726. Historical Site
- 727. Wildlife Reserve
- 728. Marine Reserve
- 729. Ramsar Site
- 730. National Landmark
- 731. Historical Site
- 732. Wildlife Reserve
- 733. Marine Reserve
- 734. Ramsar Site
- 735. National Landmark
- 736. Historical Site
- 737. Wildlife Reserve
- 738. Marine Reserve
- 739. Ramsar Site
- 740. National Landmark
- 741. Historical Site
- 742. Wildlife Reserve
- 743. Marine Reserve
- 744. Ramsar Site
- 745. National Landmark
- 746. Historical Site
- 747. Wildlife Reserve
- 748. Marine Reserve
- 749. Ramsar Site
- 750. National Landmark
- 751. Historical Site
- 752. Wildlife Reserve
- 753. Marine Reserve
- 754. Ramsar Site
- 755. National Landmark
- 756. Historical Site
- 757. Wildlife Reserve
- 758. Marine Reserve
- 759. Ramsar Site
- 760. National Landmark
- 761. Historical Site
- 762. Wildlife Reserve
- 763. Marine Reserve
- 764. Ramsar Site
- 765. National Landmark
- 766. Historical Site
- 767. Wildlife Reserve
- 768. Marine Reserve
- 769. Ramsar Site
- 770. National Landmark
- 771. Historical Site
- 772. Wildlife Reserve
- 773. Marine Reserve
- 774. Ramsar Site
- 775. National Landmark
- 776. Historical Site
- 777. Wildlife Reserve
- 778. Marine Reserve
- 779. Ramsar Site
- 780. National Landmark
- 781. Historical Site
- 782. Wildlife Reserve
- 783. Marine Reserve
- 784. Ramsar Site
- 785. National Landmark
- 786. Historical Site
- 787. Wildlife Reserve
- 788. Marine Reserve
- 789. Ramsar Site
- 790. National Landmark
- 791. Historical Site
- 792. Wildlife Reserve
- 793. Marine Reserve
- 794. Ramsar Site
- 795. National Landmark
- 796. Historical Site
- 797. Wildlife Reserve
- 798. Marine Reserve
- 799. Ramsar Site
- 800. National Landmark

SocMon Training Workshop
16-20 January 2012
Julietta Lodge Hotel, St. Lucia

Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

About the PSEPA

- Environmental Protection Area comprising:
 - 1 wildlife reserve: Maria Islands (1982)
 - 2 marine reserves: Marikote mangrove area (1986) & Savannes Bay and Scorpion Island (1984), Both designated RAMSAR sites (2002)
 - Nature reserve (Maria Islands)
 - National landmark (upper Moule-a-Chique)
 - Historical sites
- Legally declared in 2007
- 1,038 hectares, 688 of which is marine
- 1 of 2 EPAs designated in St. Lucia
- Management agency:
 - Ministry of Physical Development, Environment and Housing
- Marine reserves management responsibility:
 - Department of Fisheries



Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Importance of area for conservation

- Composed of many types of ecosystems:
 - Seagrass beds, mangroves, coral reefs and nearshore islands
- Coastal ecosystems in "relatively good state of preservation" (Espeult 2006)
- Supports
 - locally important fisheries
 - community livelihoods
- Negligible human habitation within the area but...
 - surrounding inland and coastal communities of the eastern and southern areas of Vieux Fort (2nd largest town) can impact and be impacted by the PSEPA



Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Activities/uses within the PSEPA

- Fishing: pot, spear, seine
 - 2 small fish landing sites (Savannes Bay and Bois Chadon)
- Sea moss farms:
 - decreased activity in recent years
- Charcoal production
- Tourism: hotels
- Turtle nesting – Bois Chadon beach
- Historical sites
- Recreational: *inter alia* beach-going (Bois Chadon & Anse de Sable), windsurfing, horseback riding, kayak tours etc.



Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

Issues/concerns

- Anse de Sable use and user conflicts
 - Jet skis vs. motor boats in nearshore
- Overfishing
- Inappropriate/destructive fishing practices
- Land-based sources of pollution
- Loss of mangroves & seagrass beds
- Incompatible developments
- Poor enforcement capacity
- Sand-mining?
- Anything else?






5

Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

PSEPA plans, projects & research

- PSEPA management plan 2009-2014
- Interpretation and Education Plan (Satney & Chase 2008)
- Management capacity assessment of MPAs in the Caribbean (Gombos et al. 2011)
- OPAAL Project
- Any others?






Socio-economic Monitoring
by Caribbean Challenge
MPA Managers
(CC SocMon Project)

The SocMon fit

Linkage to PSEPA Management Plan actions and activities or is there something else?

- Strategic Area 2: Effective management of important ecosystems and resources
 - Action 3: Management of critical ecosystems
 - Activity 3: Develop and implement management plans for existing protected areas within the PSEPA (Page 39)
- Strategic Area 2: Effective management of important ecosystems and resources
 - Action 6: Promotion of sustainable resource use
 - Activity 4: Develop new/alternative livelihood initiatives to replace detrimental practices (Page 40)
- Data management
 - "In developing the data management system, the MCE will ensure that, in addition to the biophysical data, more information will be gathered on types of resource use, user groups, origin of users, patterns and levels of use, use/user conflicts, impact of uses on resources, and benefits to the community." (Page 43)

Appendix 6: Key informant interview guides

Group 1

Savannes Bay Key Informant Interview

This interview is part of a training exercise. We would like to ask you a few questions about Savannes Bay and the Pointe Sable Environmental Protection Area.

The Pointe Sable Environmental Protection Area is...[provide brief explanation and background to the area].

1. Prior to today, have you heard about the PSEPA?
2. How did you learn about the PSEPA?
3. Can you show me on this map where the PSEPA starts and ends, i.e. the extent of the area?
4. Do you agree with the designation/implementation of the PSEPA? If yes, why?
5. Were you involved in the setting up or establishment of the PSEPA? If yes, in what way?
6. What are some of the activities conducted within Savannes Bay?
7. In terms of fishing activities, please complete the following table:

For catch indicate whether it is increasing (+), decreasing (-) or stable (0).

For # of fishers, indicate the number.

Type of gear used		J	F	M	A	M	J	J	A	S	O	N	D
Pots	Catch												
	# fishers												
Trolling lines	Catch												
	# fishers												
Handlines	Catch												
	# fishers												

8. Who do you think is responsible for managing the PSEPA?
9. Do you think you have a role to play in the further development and management of the EPA?
What do you think your contribution is or could be to the development and effective management of the PSEPA?

Group 2

Key Informant Interview Guide

Hotel manager

1. Tell me what you know about the PSEPA.
2. What areas are protected?
3. What touristic activities take place in the PSEPA?
4. What tourism products/activities does this particular hotel offer?
5. What else could you see yourself offering to become more viable?
6. What type of accommodation do you provide?
7. What type of clientele comes to this hotel?

Savannes Bay fisherman (James Daniel) and Charcoal producer (Magdalene Nelson)

1. Tell me what you know about the PSEPA.
2. What areas are protected?
3. What activities take place in the PSEPA? (map)
4. Are there any illegal activities taking place? Specify.
5. How do you make a living from activities within the PSEPA?
6. What other ways can you earn a living within the PSEPA?
7. What techniques do you use to harvest the resource? (timeline)
8. How much do you charge for the products you sell?
 - a. Who are the customers?
 - b. How often?
9. How valuable is it to you?

Appendix 7: Household/individual surveys

Group 1

ID # ___/Q# ___/ ___

HOUSEHOLD SURVEY

THIS QUESTIONNAIRE IS CONDUCTED AS PART OF A TRAINING EXERCISE THROUGH THE UNIVERSITY OF THE WEST INDIES AND LOCAL COUNTERPARTS TO DETERMINE THE LEVEL OF AWARENESS AND ECONOMIC IMPACT OF MARINE PROTECTED AREAS IN ST. LUCIA.

(POINTE SABLE ENVIRONMENTAL PROTECTION AREA)

PLEASE CIRCLE THE APPROPRIATE ANSWER

1. PLEASE INDICATE YOUR AGE RANGE
A. 12-18 B. 19-35 C. 36 AND OVER
2. PLEASE INDICATE YOUR GENDER
A. MALE B. FEMALE

THE PSEPA IS A PROTECTED AREA WHICH RUNS FROM POINTE DE CALLE TO MOULE-A-CHIQUÉ. THIS ALSO INCLUDES SAVANNES BAY AND POINTE SABLE.

3. HAVE YOU HEARD ABOUT THE PSEPA? IF YES, GIVE A BRIEF DESCRIPTION.
4. DO YOU KNOW WHAT AN ENVIRONMENTAL PROTECTION AREA (EPA) IS?
A. YES B. NO
5. IF YES, WHAT DOES IT MEAN TO YOU?
A. RESTRICTED ACCESS
B. PROTECTION OF RESOURCES
C. RECREATION
D. NO TAKE ZONE
E. NO SWIMMING
F. OTHER (PLEASE SPECIFY) _____
6. ARE YOU FAMILIAR WITH THE RULES AND REGULATIONS PERTAINING TO THE EPA?
A. FISHING
B. MANKOTE MANGROVE
C. SAVANNES MANGROVE
D. NATURE RESERVE
E. MARIA ISLET NATURE RESERVE
F. MARIA ISLET MARINE RESERVE
G. OTHER (PLEASE SPECIFY) _____

7. DO YOU KNOW OF ANY THREATS TO THE COASTAL RESOURCES?
A. YES B. NO

IF YES, WHAT ARE THEY?

8. ON A SCALE OF 1-5, HOW INVOLVED WERE YOU IN THE ESTABLISHMENT OF THE PSEPA?
1 - BEING NO PARTICIPATION
5- BEING FULL PARTICIPATION

1 2 3 4 5

9. ARE YOU A MEMBER OF ANY COMMUNITY ORGANISATION?
A. YES B. NO

IF YES, PLEASE SPECIFY _____

10. HOW DO YOU AND THE MEMBERS OF YOUR HOUSEHOLD UTILISE THE COASTAL AND MARINE RESOURCES IN THE PSPEA?

11. IDENTIFY THE ACTIVITIES THAT YOU ENGAGE IN WITHIN THE EPA
A. VENDING
B. DAY BOAT TOURS
C. FISHING
D. SWIMMING
E. BIRD WATCHING
F. SEAMOSS FARMER
G. OTHER _____

12. WHICH OF THESE BEST DESCRIBES YOUR AVERAGE MONTHLY INCOME?
A. LESS THAN \$1,000
B. 1,000 - 1,499
C. 1,500 - 5, 999
D. 6,000 - 9, 999
E. 10,000 AND OVER

Group 2

ID# _____ / _____ Q# ____ / _____

Participants of a training workshop organized by the University of the West Indies are conducting a survey to determine the awareness, uses and benefits of the Pointe Sable Environmental Protection Area

Date _____

Settlement _____

(1) What is your age range:

0-19 20-39 40-59 60 onwards

(2) Sex of the respondent.

Male Female

(3) What is the highest level of education you have attained?

No Formal Education

Pre-primary

Primary

Secondary

Tertiary

(4) State the number of persons in your household? _____

(5) What is your primary occupation?

(b) Do you have a secondary form of income?

Yes No

(6) What is your household's most important source of income?

(7) (a) Do you know about the Pointe Sable Environmental Protection Area?

Yes No

(b) If yes, what can you tell me about the PSEPA?

(8) (a) Do you know whether there are regulations governing the PSEPA?

Yes No

(b) If yes, what are some of the regulations?

(9) Do you think that there should be regulations governing the following areas:

Mankote Mangrove	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Savannes Bay	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Maria Island	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

(10) What activities do you and other members of your household do in the PSEPA do for work and for fun? (tick all that apply)

Sea bathing	<input type="checkbox"/>	bird watching	<input type="checkbox"/>	seamoss farming	<input type="checkbox"/>
horse-back riding	<input type="checkbox"/>	free diving	<input type="checkbox"/>	wind surfing	<input type="checkbox"/>
picnic/beach party	<input type="checkbox"/>	scuba diving	<input type="checkbox"/>	kite surfing	<input type="checkbox"/>
cricket, volleyball	<input type="checkbox"/>	boat rides	<input type="checkbox"/>	kayaking	<input type="checkbox"/>
fishing	<input type="checkbox"/>	hiking	<input type="checkbox"/>	tour guiding	<input type="checkbox"/>
charcoal production	<input type="checkbox"/>				

Other _____

(11) Using the scale, strongly agree (1) , agree (2) , neither agree nor disagree (3), disagree (4), strongly disagree (5), indicate how strongly you feel about the following statements:

(a) Maria Island should be protected because of the St. Lucia Whiptail Lizard.

1 2 3 4 5

(b) The Mankote Mangrove should be managed because of its importance to various forms of livelihood.

1 2 3 4 5

(c) Fishermen should be allowed to fish anywhere in the PSEPA.

1 2 3 4 5

(d) We should encourage hotel development along Sandy Beach.

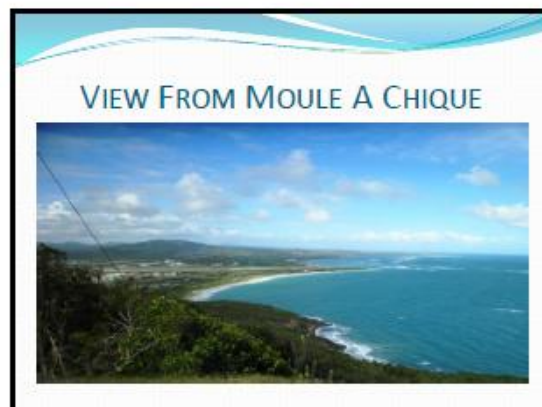
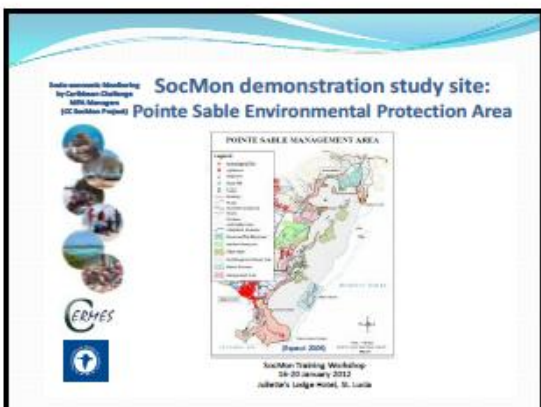
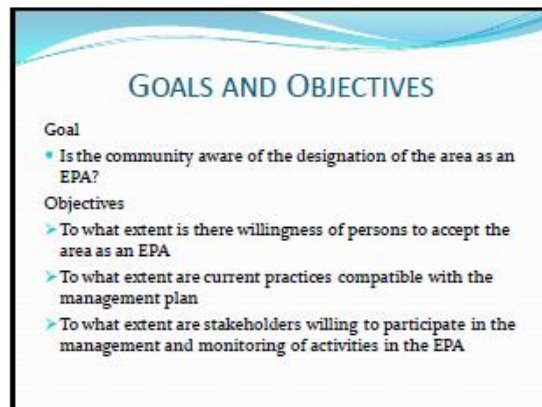
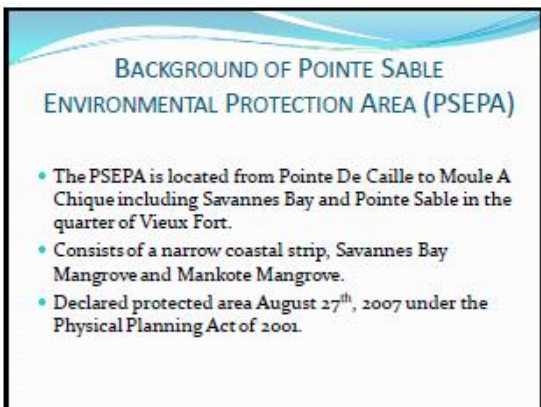
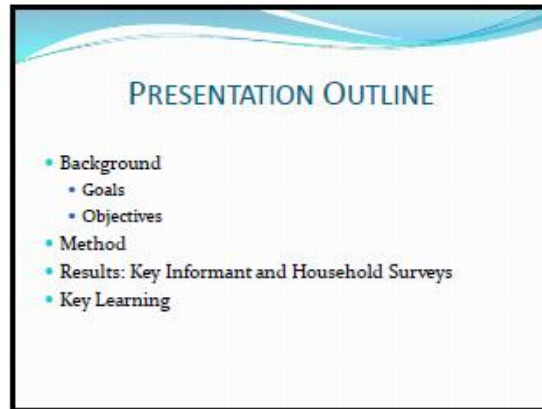
1 2 3 4 5

12) Is there any other activity that you think should be started in the PSEPA?

Thank you for your time!



Appendix 8: Group presentation slides
Group 1



METHODOLOGY

- Survey area was identified
- 3 Key Informants (KIs) were identified and households randomly chosen
- Questionnaires were developed and pre-tested using the SocMon monitoring guidelines
- Questionnaires were administered within the study area, data was collated and analyzed.

TEAM UTILIZING SocMON GUIDELINES



KEY INFORMANT RESULTS

- KIs aware of the PSEPA prior to interview.
- KIs learnt about PSEPA from
 - colleagues
 - St. Lucia National Trust
- 2 of 3 KIs identified the extent of the area and one had a fair idea.

- KIs agreed with designation for the following reasons
 - ✓ Sustainability of flora and fauna
 - ✓ Touristic opportunities
- KIs were involved in establishment either through work, community personnel or as fishers.
- KIs identified the following activities at Savannes Bay
 - ✓ Tours to Scorpion and Maria Island
 - ✓ Fishing (Seine, Trolling and Pot)
 - ✓ Savannes Bay Day/Feasts

SEASONAL CALENDAR FOR SAVANNES BAY

Type of gear used		J	F	M	A	M	J	J	A	S	O	N	D
Pots	Season Catch						-	-	-	-	-	-	-
	# fishers						✕	✕	✕	✕	✕	✕	✕
Trolling line:	Season Catch	-	-	-	-	-							
	# fishers	✕	✕	✕	✕	✕							
Handlines:	Season Catch	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	# fishers	0	0	0	0	0	0	0	0	0	0	0	0

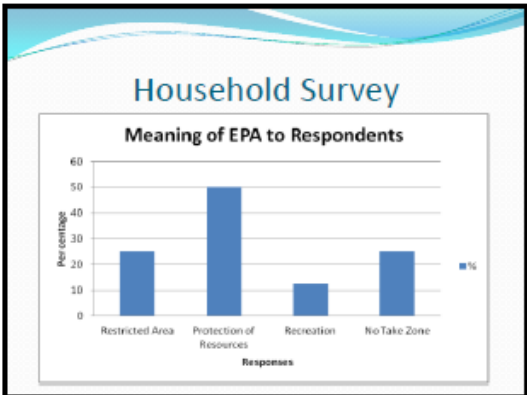
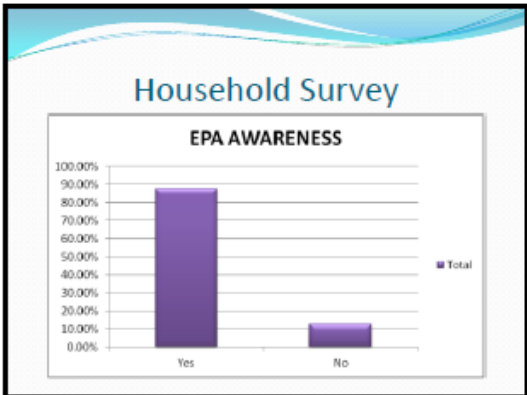
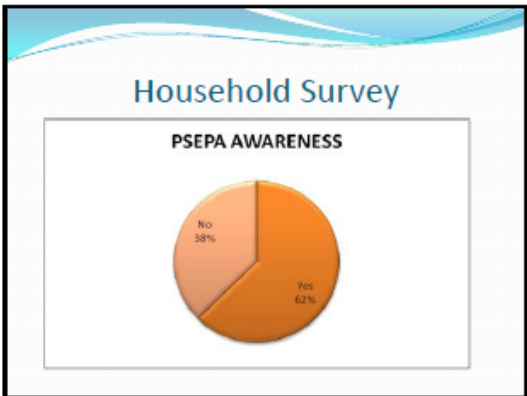
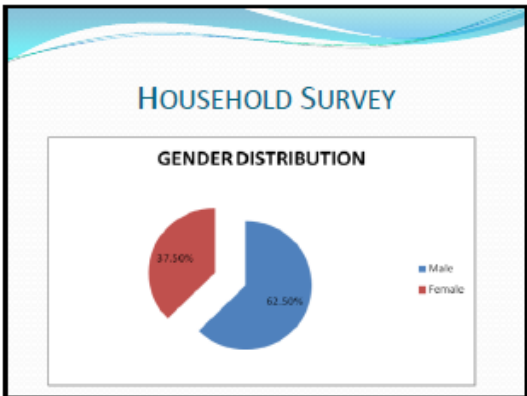
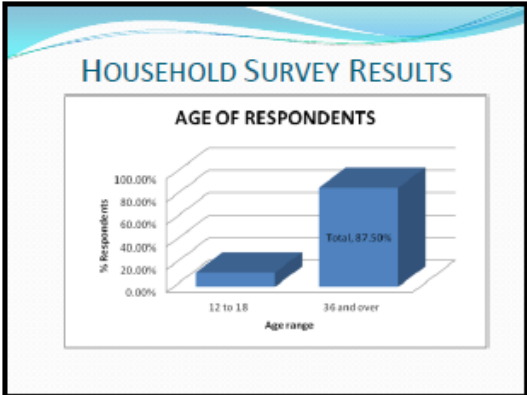
Key
 Catch: increasing (+), decreasing (-) or stable (o)
 (—) represents the fishing season ✕ 10 fishers

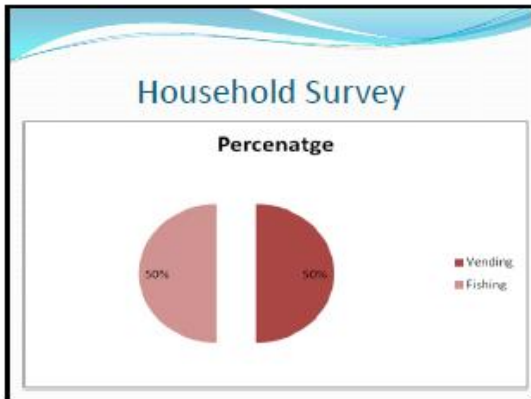
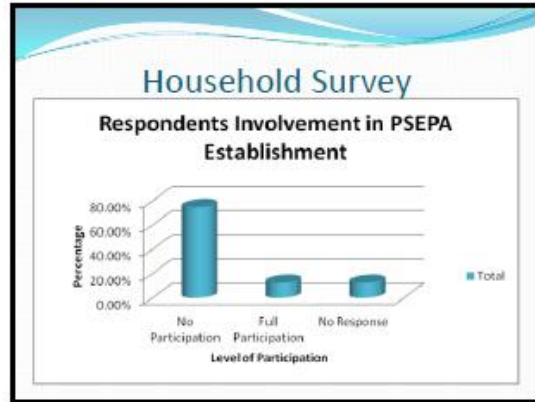
ECONOMIC ACTIVITY WITHIN PSEPA

FISHING VENDING CHARCOAL PRODUCTION

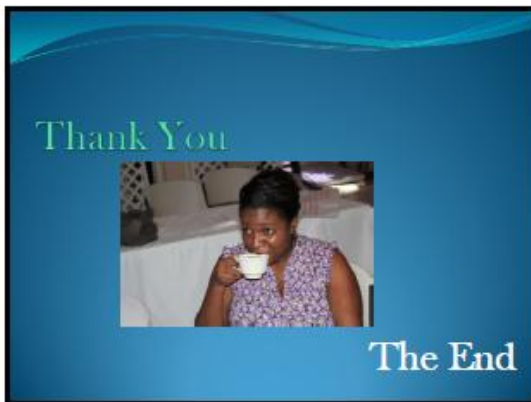


- KIs thought that the Saint Lucia National Trust, Government and other users of the resources earning a livelihood should manage the PSEPA.
- The respondents believe that their role could be to
 - report illegal activities to relevant authorities.
 - work with authorities to further develop the area in a sustainable manner.
 - collaborate with other agencies in public and private sectors, NGO's, quasi government, local groups and the users of the resource
 - minimise pollution in and around the protected area
 - be part of any organisation/ group set up to oversee the management of the area





- ### KEY LEARNING
- Respondents are willing to accept the areas designation as an EPA
 - Fishers within the Savannas Bay area are quite knowledgeable of the EPA
 - To some extent, fishers and the community at large practices, are in keeping with the management plan as it relates to fishing.
 - Results indicate that they are participating in the management of the EPA.



Group 2



GOAL

To determine the extent to which people are aware of and benefit from touristic opportunities in the PSEPA.

OBJECTIVES

- To determine the level of awareness of the PSEPA.
- To determine the existing and potential livelihood opportunities within the PSEPA
- To determine the number of households currently benefiting (economically) from the PSEPA

Pointe Sable Environmental Protection Area

- Environmental Protection Area comprising:
 - 1 wildlife reserve: Maria Islands (1962)
 - 3 marine reserves: Maria Island Marine Reserve, Mankote mangrove area (1986) & Savannes Bay both designated RAMSAR sites (2002)
 - Nature reserve (Maria Islands)
 - National landmark (upper Moule-a-Chique)
 - Historical sites
- Legally declared in 2007
- 1,038 hectares, 688 of which is marine
- 1 of 2 EPAs designated in St. Lucia
- Management agency:
 - Ministry of Physical Development, Environment and Housing
- Marine reserves management responsibility:
 - Department of Fisheries

Pointe Sable Environmental Protection Area

- Fishing: pot, spear, seine
 - 2 small fish landing sites (Savannes Bay and Bois Chadon)
- Sea moss farms:
 - decreased activity in recent years
- Charcoal production
- Tourism: hotels
- Turtle nesting – Bois Chadon beach
- Historical sites
- Recreational: *inter alia* beach-going (Bois Chadon & Anse de Sable), windsurfing, horseback riding, kaye tours etc.

Method

Preparatory Activities

➔

Data Collection

- Secondary
- Key Informant
- Household interviews

➔

Data Analysis

KEY INFORMANT INTERVIEWS



Savannes Bay- James Deniel



Manikote Mangrove- Magdolne Nelson



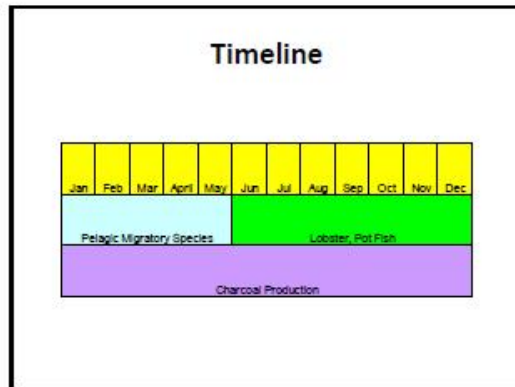
Hotel Proprietor- Andrew Paul

Key Informant Responses

Issue	Fishermen	Charcoal Producer	Guest House Manager
Knowledge of mangroves	Practically none	Manikote Mangroves is a part of mangroves	not very knowledgeable
Area protected	Entire area from Moutie a Chique to Savannes Bay	Only Manikote	Savannes Bay, Manikote
Building tourist activities			bird and kite surfing, scuba diving, Manikote Island tours, night viewing of Manikote a Chique
Tourism product from hotel			accommodation, events and advise guests on tours. Would like to explore becoming a tour operator for bird watching
Tourist clientele profile			north american stay over visitors, airport workers, airline crew and pilot visitors
Diverse activities	commercial fishing, near shore island tours, fishing tours, diving, sea mossa production, charcoal production, horse back riding	Fishing, sea mossa production, charcoal production, horseback riding, mangrove tours, bird watching tours, kite surfing, recreational beach pass, mossa a chique tours	
Local activities	hand milled, drug trade	legal mangrove harvesting, hand milled, legal fishing in mangroves	
Economic activity within parish	commercial fishing, subsistence farming, offshore island tours, fishing tours	charcoal, almond, tour guide, mangrove and birds, subsistence farming	

Key Informant Responses

Coastal and Marine Activity	Goods & Services	Techniques	Value of goods and services	Market Orientation
Fisheries	Lobster	Trap	High (\$150/lb)	local
	Peaf Fish	Seine, Trap	Medium	
	Pelagic migratory species	PAO, Trolling	Low to medium (\$50 - \$70)	
		Seine		
Tourism	Eco-tours	Bird (non-urban)	subsidized	local, regional and international
		Bird watching, island tours, mangrove tours	low (\$20 per tour but only 4 tours per year)	
	Recreational beach activities	kite surfing, kite surfing, beaching	high recreational value	
	Chique tours		low (high value per tour but very infrequent)	
	Hotel accommodation	guest houses, all inclusive hotel	medium (potential tourism \$)	
Forestry	Charcoal production	sustainable harvest	low (\$50/bag or \$10/bucket). Although value is high, production is low	local

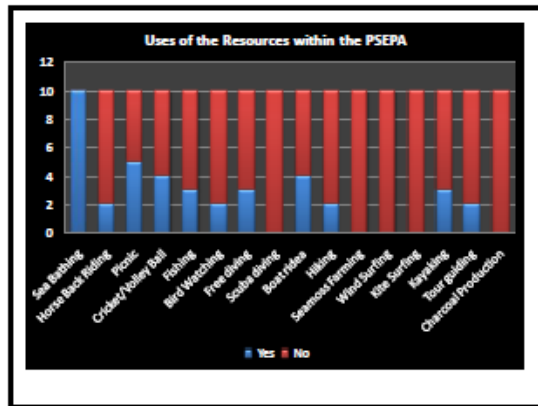
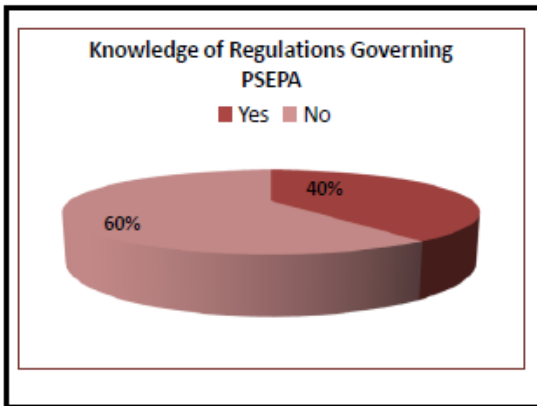
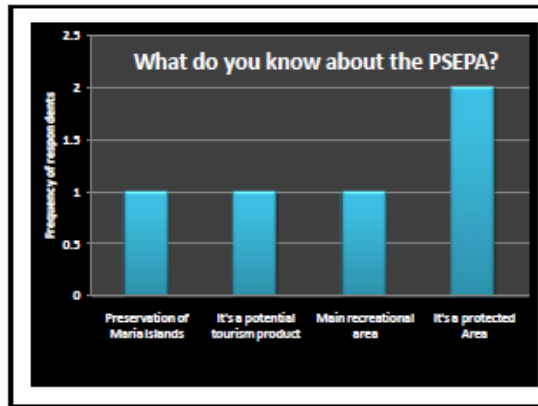
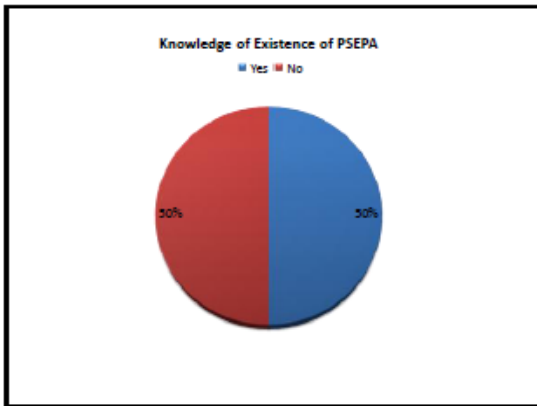
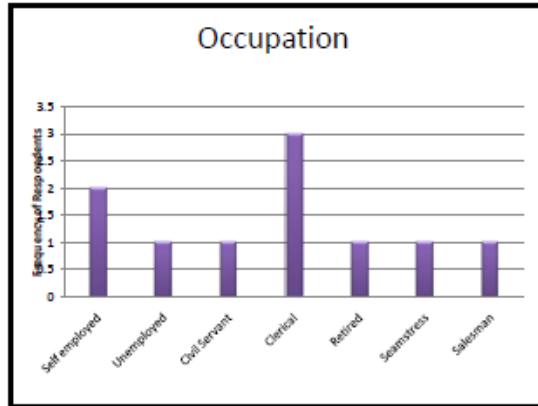
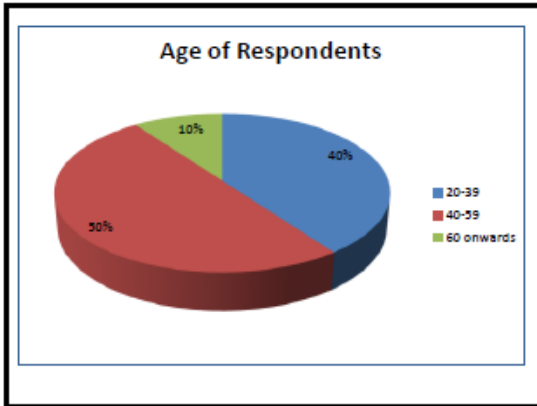


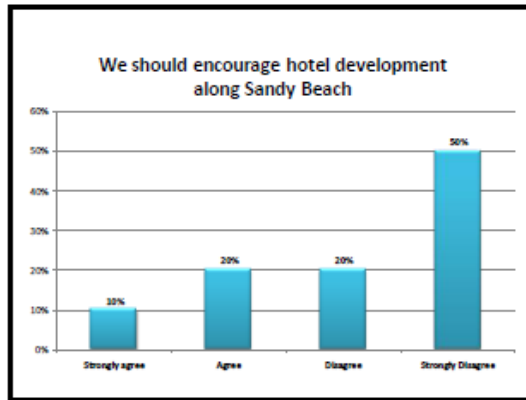
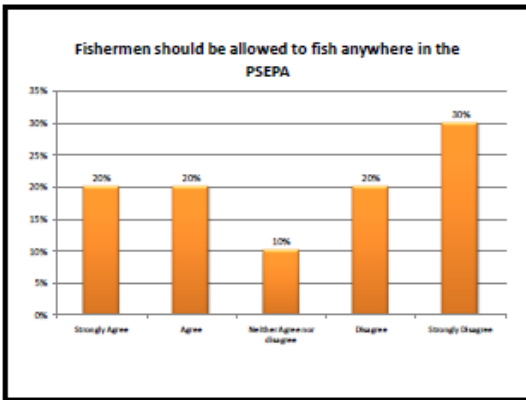
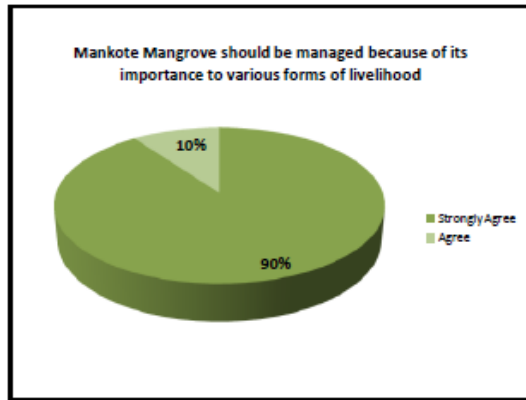
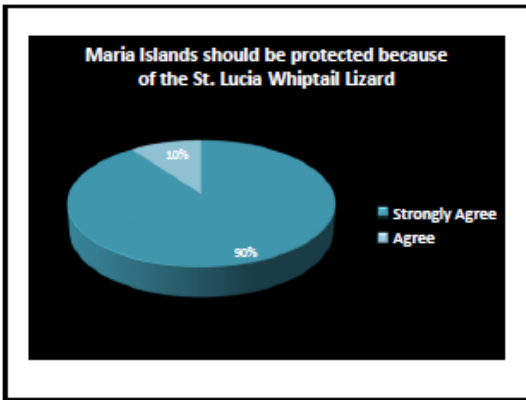
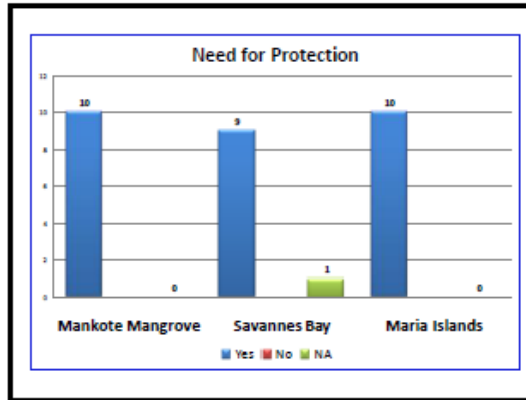
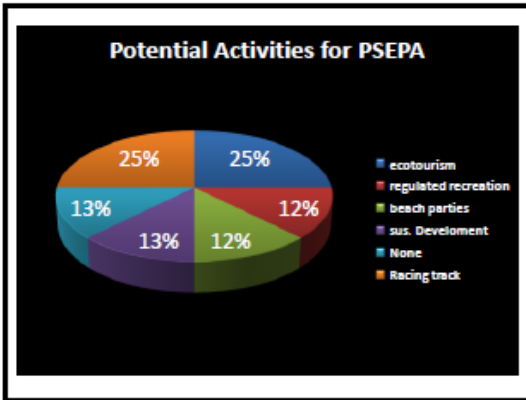
Household Interviews

- 10 households interviewed from the town of Vieux Fort.




Results and Data Analysis





Key Lessons

- There is a greater knowledge of the resources within PSEPA than there is knowledge on the existence of the PA
- There is a great value placed on the resources within the PSEPA
- There is much potential for livelihood opportunities within the area
- Persons recognise the need for its protection



Group 1

**Socio-economic Monitoring by
Caribbean Challenge MPA Managers
(Caribbean Challenge SocMon)
16-20 January 2012, St. Lucia**

Preparatory activities worksheets used to plan monitoring

These worksheets are *guides* to organising the preparatory activities. They can be modified in any way you find useful. Other worksheets are in the socio-economic manual. Spreadsheets are often more convenient than word processing applications for working with tables of all types.

1. Goals and objectives guiding socio-economic monitoring

Monitoring goal	Monitoring objectives (three SMART ones)
To determine the awareness of the Savannes Bay community of the designation of the area as an EPA	1. To what extent is there willingness of persons to accept the area as an EPA
	2. To determine to what extent the current practices are compatible with the management plan
	3. To what extent are stakeholders willing to participate in management of the EPA or activities

2. Defining the study area

Study area selection criteria	Study area description (or attach area map)
Savannes Bay	<ul style="list-style-type: none"> • Fish landing site • Community • Recreational site (social)

3. Stakeholder identification

Study area activity or issue	Primary stakeholder [and organisation]	Secondary stakeholder [and organisation]
Fish landing site	Fishers	
Recreational sites	Residents/restaurantees	
Vending (fish, shop)	Vendors	

4. Stakeholder locations and key informants

Stakeholders (1° and 2°)	Location of stakeholder	Key informants for stakeholders
Fishers	Savannes Bay	Mr. James Daniel
Fishers	Savannes Bay	Mr. John Roberts

5. SocMon leader and team

Skill requirement or role on team	Names and affiliations of team leader and members

6. Work plan schedule

Activity / task	Day →	1	2	3	4	5
Preparatory activities						
Site visit and determination of study boundaries		X				
Develop proposed topic, goals and objectives		X				
Inform community of project		X				
Secondary data collection						
Review existing management plan for PSEPA			X			
Primary data collection and observation						
Develop key informant interview guide			X			
Design household survey				X		
Pre-test survey				X		
Administer survey				X		
Data analysis and interpretation						
Data coding and entry					X	
Data analysis					X	
Data reporting				X	X	
Validation, communication, adaptation						
Create presentation (present findings)						X

7. Key variables to be monitored

<i>Key informant interview/secondary sources variables</i>			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K1.	Study area		
K2.	Population	1, 2, 3	
K3.	Number of households		
K 4.	Migration rate		
K5.	Age		
K6.	Gender		
K7.	Education		
K8.	Literacy		
K9.	Ethnicity		
K10.	Religion		

Key informant interview/secondary sources variables			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K11.	Language		
K12.	Occupation	1, 2, 3	
K13.	Community infrastructure and business development		
K14.	Activities	2	
K15.	Goods and services	2	
K16.	Types of use	1, 2, 3	
K17.	Value of goods and services		
K18.	Goods and services market orientation		
K19.	Use patterns	1, 2, 3	
K20.	Levels and types of impact	1, 2, 3	
K21.	Level of use by outsiders		

<i>Key informant interview/secondary sources variables</i>			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K22.	Household use		
K23.	Stakeholders		
K24.	Tourist profile		
K25.	Management body		
K26.	Management plan		
K27.	Enabling legislation		
K28.	Management resources		
K29.	Formal tenure and rules		
K30.	Informal tenure and rules, customs and traditions		
K31.	Stakeholder participation	1, 3	

<i>Key informant interview/secondary sources variables</i>			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K32.	Community and stakeholder organisations	1, 3	
[New]	Awareness	1,2,3	
[New]			

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S1.	Age	✓	
S2.	Gender	✓	
S3.	Ethnicity		
S4.	Education	✓	
S5.	Religion		
S6.	Language		

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S7.	Occupation	✓	
S8.	Household size	✓	
S9.	Household income	1	
S10.	Household activities	2	
S11.	Household goods and services	2	
S12.	Types of household uses	2, 3	
S13.	Household market orientation		
S14.	Household uses	2	
S15.	Non-market and non-use values	2	
S16.	Perceptions of resource conditions	1, 2	
S17.	Perceived threats	2, 3	

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S18.	Awareness of rules and regulations	1, 2, 3	
S19.	Compliance	1, 2, 3	
S20.	Enforcement		
S21.	Participation in decision-making	3	
S22.	Membership in stakeholder organizations	3	
S23.	Perceived coastal management problems		
S24.	Perceived coastal management community solutions		
S25.	Perceived community problems		
S26.	Successes in coastal management		
S27.	Challenges in coastal management		

Survey variables			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S28.	Material style of life		
S29	Study area		

8. Interview sample design

Depending on many factors ranging from the objectives of monitoring to area demographics, you need to determine 'how' and 'how many' for selection of key informants and households.

a. Key informants	b. Households
Critical information areas Fishing	Estimated number of households in study area and means of obtaining estimate Uncertain
No. of informants: 3	Approx. sample size: 5
Selection process: Knowledge of priority areas/activities	Sample selection method: Random

9. Draft interview (key informant and household) questions

Key informant questions/interview guide (open-ended questions to encourage discussion)	
Var. No.	Question
	See attached

Household survey questions/questionnaire (craft questions with different layouts)	
Var. No.	Question
	See attached

10. Visualisation techniques

Technique and page in manual	Variable and objective nos.	Notes on application of the technique to the variable and objectives (e.g. for all or some stakeholders? Issues?)
Maps – 113		
Transects – 119		
Timelines – 121		
Seasonal calendars – 125		
Historical transects – 129		
Decision trees – 131		
Venn diagrams – 133		
Flow charts – 136		
Ranking – 138		

11. Key points to consider in data analysis and interpretation

1 Time was not set according to the availability of respondents but rather due to the training schedule
2 There may not be true representation of survey area

12. Communication plan and issues in arrangements for communication and validation

Communication and validation of results and key learning is often done in workshops, but other means are used to supplement this and ensure that various audiences receive the outputs. However done, there will always be some practical matters to address, i.e. issues in arrangements for communication and validation.

Target audience	Communication product(s)	Communication pathway(s)	Practical matters
Fishers	PSA Presentation	Meeting Face to face	Convenience (time)

Target audience	Communication product(s)	Communication pathway(s)	Practical matters
Policy makers	Exec report	Cabinet	Convenience (time)
NGOs	Flyers Posters Letters (print media)	Consultation workshop	Financial constraint
Community leaders	Letters	Consultation workshop Media	Time of airing

13. Any other notes (optional)

**Socio-economic Monitoring by
Caribbean Challenge MPA Managers
(Caribbean Challenge SocMon)
16-20 January 2012, St. Lucia**

Preparatory activities worksheets used to plan monitoring

These worksheets are *guides* to organising the preparatory activities. They can be modified in any way you find useful. Other worksheets are in the socio-economic manual. Spreadsheets are often more convenient than word processing applications for working with tables of all types.

1. Goals and objectives guiding socio-economic monitoring

Monitoring must have a goal and specific objectives for being undertaken. These are often based on management plans (e.g. fisheries, MPA, tourism) or other expressions of policy.

Monitoring goal	Monitoring objectives (three SMART ones)
To determine the extent to which people are aware of and how they benefit from tourism opportunities in the Point Sable Environment Protection Area (PSEPA).	1. To determine the level of awareness of persons of the PSEPA.
	2. To determine the existing and potential livelihood opportunities within the PSEPA.
	3. To determine the number of households currently benefitting (economically) from the PSEPA.

2. Defining the study area

Using the information on issues and stakeholders, define the geographic area appropriate for the study site (contains all or most critical activities/issues and stakeholders). Document the specific selection criteria that you used. Clearly identifying the study area is important in identifying use patterns and potential threats to resources. The study area should include where the stakeholders live and work.

Study area selection criteria	Study area description (or attach area map)
Vieux Fort Town (proximity to PSEPA)	
Belle Vue (proximity to PSEPA)	
Pierrot (proximity to PSEPA)	
Aupicon (proximity to PSEPA)	
La Ressource (proximity to PSEPA)	

3. Stakeholder identification

Stakeholder identification and selecting the boundaries for the study site are iterative processes. Start by identifying the activities in the area and then determine who the likely stakeholders are. Name their organisation, if any.

Study area activity or issue	Primary stakeholder [and organisation]	Secondary stakeholder [and organisation]
Fishing	Fishermen	restaurant owners, residents, fish reseller
Charcoal production	Charcoal producers	bar-be-que vendors, residents, supermarkets.
Seamoss production	Seamoss producers	householders, supermarkets
Horse-back riding	Stable owners, horse owners, informal horse-back riders	Tourists
Water sports - Wind and kite surfing - Kayaking	Wind and kite surfers, kayakers	Tourists
Craft production	Craft producers	locals, tourists
Tourism	Hoteliers	Tourists
Recreational	Sea bathers, residents	

4. Stakeholder locations and key informants

The communities where SocMon will take place will depend primarily on the stakeholders involved in coastal management. Suggest key persons who can talk about the larger population.

Stakeholders (1° and 2°)	Location of stakeholder	Key informants for stakeholders
Charcoal Producer	Mankote Mangrove	Magdalene Nelson; leader of Charcoal Producers Group
Sea Moss Producer	Pierrot, Bois Chadon	Lina Francis; Sea moss farmer
Fishing	Savannes Bay Lobster Port Vieux Fort	Savannes Bay Key Fisher Lobster Port Key Fisher Vieux Fort Key Fisher
Recreational	Vieux Fort Town	Southern Tourism Development Co-operation

5. SocMon leader and team

Although an initial study or monitoring can be done by a single person (e.g. MSc student), the process is intended to be undertaken by an interdisciplinary team, the size and the required talents of which partly depend on the goal and objectives of the study or monitoring program. What types of expertise do you need and where from?

Skill requirement or role on team	Names and affiliations of team leader and members
Programme Officer South; knowledge of area	Anthony Sammie
Social Scientist	Nadia Cazaubon
Ecologist	Allena Joseph
Economist	Bethia Daniel
Community Development Officer	Faustinus Faisal

6. Work plan schedule

A SocMon study should take no more than one month however duration varies between 3-8 weeks, so you need to schedule your work accordingly, remembering the SocMon stages including validation. For the purposes of this training workshop, set out up to three tasks under each heading for your demonstration site study.

Activity / task	Day →	1	2	3	4	5
Preparatory activities						
Preliminary site visit		X				
Develop proposed topic, goals and objectives		X				
Inform community of project		X				
Secondary data collection						
Determine what secondary data exists; literature review.		X	X			
Literature Review		X	X			
Gap Analysis		X	X			
Primary data collection and observation						
Determine and prepare data collection methods.			X			

3

Activity / task	Day →	1	2	3	4	5
Interview key informants.			X			
Household surveys.			X			
Data analysis and interpretation						
Data Coding and entry				X	X	
Data analysis				X	X	
Data interpretation				X	X	
Data reporting				X	X	
Validation, communication, adaptation						
Validation exercises with key stakeholders						X
Completion of final report						X

7. Key variables to be monitored

Based on the goal and objectives of the monitoring, you need to determine which (if not all) of the SocMon Caribbean variables need to be measured, sources of secondary information to consult before interviewing (key informant or household), and practical considerations for each variable. The practical considerations include levels of difficulty in acquiring information, issues, error or uncertainty, challenges in implementing fieldwork, links to data sources that are desirable, etc.

**Remember the two types of variables: Key informant interview/secondary sources variables (K) and survey variables (S).*

Also remember that if a variable specific to your purposes of monitoring is not available among the 60 SocMon Caribbean variables, you can add new variables.

Key informant interview/secondary sources variables			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K1.	Study area	1	
K2.	Population	3	Local Statistics Office
K3.	Number of households	3	Local Statistics Office
K 4.	Migration rate	2	
K5.	Age	1, 2, 3	
K6.	Gender	2, 3	
K7.	Education	1, 2,3	
K8.	Literacy	1, 2, 3	
K9.	Ethnicity		
K10.	Religion		
K11.	Language	1, 2	

Key informant interview/secondary sources variables			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K12.	Occupation	2, 3	
K13.	Community infrastructure and business development	2, 3	
K14.	Activities	1,2,3	
K15.	Goods and services	2, 3	
K16.	Types of use	2	
K17.	Value of goods and services	2, 3	
K18.	Goods and services market orientation	2, 3	
K19.	Use patterns	2	
K20.	Levels and types of impact		
K21.	Level of use by outsiders	2	
K22.	Household use	2,3	

Key informant interview/secondary sources variables			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
K23.	Stakeholders	1,2,3	
K24.	Tourist profile	2	
K25.	Management body		
K26.	Management plan		
K27.	Enabling legislation	1	
K28.	Management resources		
K29.	Formal tenure and rules		
K30.	Informal tenure and rules, customs and traditions		
K31.	Stakeholder participation		
K32.	Community and stakeholder organisations		

<i>Key informant interview/secondary sources variables</i>			
Var. No.	Variable to monitor	Obj. 1, 2, 3...	
[New]			
[New]			

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S1.	Age	✓	
S2.	Gender	✓	
S3.	Ethnicity		
S4.	Education	✓	
S5.	Religion		
S6.	Language		
S7.	Occupation	✓	

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S8.	Household size	✓	
S9.	Household income	✓	
S10.	Household activities	✓	
S11.	Household goods and services	✓	
S12.	Types of household uses		
S13.	Household market orientation		
S14.	Household uses	✓	
S15.	Non-market and non-use values	✓	
S16.	Perceptions of resource conditions	✓	
S17.	Perceived threats	✓	
S18.	Awareness of rules and regulations	✓	

Survey variables			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S19.	Compliance		
S20.	Enforcement		
S21.	Participation in decision-making		
S22.	Membership in stakeholder organizations		
S23.	Perceived coastal management problems		
S24.	Perceived coastal management community solutions		
S25.	Perceived community problems		
S26.	Successes in coastal management		
S27.	Challenges in coastal management		
S28.	Material style of life		

<i>Survey variables</i>			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	
S29	Study area	✓	

8. Interview sample design

Depending on many factors ranging from the objectives of monitoring to area demographics, you need to determine 'how' and 'how many' for selection of key informants and households.

a. Key informants	b. Households
Critical information areas	Estimated number of households in study area and means of obtaining estimate
Fishing	1000 households
Charcoal Production	
Hoteliers	
James Daniel	
Magdalene Nelson	
Andrew Paul	
No. of informants:	Approx. sample size:
3	100
Selection process:	Sample selection method:
Knowledge of priority areas/activities	Stratified Random Sampling

9. Draft interview (key informant and household) questions

There are many ways of asking the same question (content) and many types of question layout (structure). Rules apply. Select about five variables in your study and draft at least two questions per variable to get information from respondents. For household survey questions demonstrate that you can craft questions well using a variety of layouts.

– Juliette’s Lodge Manager

Key informant questions/interview guide (open-ended questions to encourage discussion)	
Var. No.	Question
K1 Study Area	Tell me what you know about the PSEPA. What areas are protected?
K14 Activities	What touristic activities take place in the PSEPA?
K15 Goods and Services	What tourism products/activities does this particular hotel offer? What else could you see yourself offering to become more viable?
K16 Types of Use	What type of accommodation do you provide?
K17 Touristic Profile	What type of clientele comes to this hotel?

James Daniel – Savannes Bay Fisherman

Key informant questions/interview guide (open-ended questions to encourage discussion)	
Var. No.	Question
K1 Study Area	Tell me what you know about the PSEPA. What areas are protected?

Key informant questions/interview guide (open-ended questions to encourage discussion)	
Var. No.	Question
K14 Activities	<p>What activities take place in the PSEPA? (map)</p> <p>Are there any illegal activities taking place? Specify</p>
K15 Goods and Services	<p>How do you make a living from activities within the PSEPA?</p> <p>What other ways can you earn a living within the PSEPA?</p>
K16 Types of Use	<p>What techniques do you use to harvest the resource? (timeline)</p>
K17 Value of Goods and Services	<p>How much do you charge for the products you sell?</p> <ul style="list-style-type: none"> - Who are the customers? - How often? <p>How valuable is it to you?</p>

Magdalene Nelson – Charcoal Producer, Mankote

Key informant questions/interview guide (open-ended questions to encourage discussion)	
Var. No.	Question
K1 Study Area	Tell me what you know about the PSEPA. What areas are protected?
K14 Activities	What activities take place in the PSEPA? (map) Are there any illegal activities taking place? Specify
K15 Goods and Services	How do you make a living from activities within the PSEPA? What other ways can you earn a living within the PSEPA?
K16 Types of Use	What techniques do you use to harvest the resource? (timeline)
K17 Value of Goods and Services	How much do you charge for the products you sell? - Who are the customers? - How often? How valuable is it to you?

Household survey questions/questionnaire (craft questions with different layouts)	
Var. No.	Question
S1 Age	What is your age range: 0-19 20-39 40-59 60 onwards
S2 Gender	Male Female
S4 Education	What is your level of education? No Formal Education, Pre-primary, Primary, Secondary, Tertiary
S7 Occupation	What is your primary occupation? Do you have a secondary form of income?
S8 Household Size	No. of persons in the household _____.
S9 Household Income	What is your household's most important source of income?
S10 Household Activities	What activities do you and other members of your household do in the PSEPA do for work and for fun? Sea bathing, horse-back riding, picnic/beach party, cricket, volleyball, port fishing, spear fishing, pelagic fishing, free diving, scuba diving, boat rides, hiker, tour guiding, bird watching, wind surfing, kite surfacing, kayaking, seamoss farming, charcoal production
S11 Household goods and services	
S14 Household Uses	
S 15 Non-market and non-use Values	Do you think that there should be regulations governing the following areas: Mankote Mangrove Yes No Savannes Bay Yes No Maria Island Yes No
S16 Perceptions of resource conditions	
S17 Perceived threats	
S18 Awareness of rules and regulations	Do you know whether there are regulations governing the PSEPA? If yes, what are some of the regulations? Using a scale of strongly agree, agree, neither agree nor disagree, disagree, strongly disagree, indicate how you feel about the following statements. Do you think that there should be regulations governing the following areas:

Household survey questions/questionnaire (craft questions with different layouts)	
Var. No.	Question
	Mankote Mangrove Savannes Bay Maria Island
S29 Study Area	Do you know about the Pointe Sable Environmental Protection Area? If yes, what can you tell me about the PSEPA?

10. Visualisation techniques

The GCRMN manual describes several visualisation techniques that are useful for collecting, displaying and communicating socio-economic data informatively to document or assist decision-making. Many methods may be used simultaneously or sequentially. The means of presenting socio-economic monitoring results is critical in showing relationships among the data. Which methods will you use?

Technique and page in manual	Variable and objective nos.	Notes on application of the technique to the variable and objectives (e.g. for all or some stakeholders? Issues?)
Maps – 113		
Transects – 119		
Timelines – 121	2, 3	Used for only one stakeholder – The key fisher in the Savannes Bay area, to explain how techniques for harvesting fish changed over the years.
Seasonal calendars – 125		
Historical transects – 129		
Decision trees – 131		
Venn diagrams – 133		
Flow charts – 136		
Ranking – 138		

11. Key points to consider in data analysis and interpretation

Depending on the nature of the study site and your monitoring process there are often special points to consider as you analyse and interpret data. These may be assumptions, constraints or expertise required. You will need to know these beforehand and to write them up with results.

1	Lack of financial resources to conduct and analyse data.
2	Field trips were conducted in an ad-hoc manner, in keeping with workshop schedule and not necessarily the most appropriate time for conducting interviews.
3	Time constraints; insufficient time to analyse and interpret data.

12. Communication plan and issues in arrangements for communication and validation

Communication and validation of results and key learning is often done in workshops, but other means are used to supplement this and ensure that various audiences receive the outputs. However done, there will always be some practical matters to address, i.e. issues in arrangements for communication and validation.

Target audience	Communication product(s)	Communication pathway(s)	Practical matters
Policy Makers	Policy Briefs, Presentations	Cabinet meeting, sub-committee meeting, documentation, familiarisation tours.	Availability of policy maker
NGOs and CBOs	Presentations, Videos, Pamphlets	Discussion forum, familiarisation tours.	Financial resources
Resource users of the PSEPA	Presentations, Videos, Posters and Leaflets	Town-hall meetings, one-on-one discussions, focus group sessions	Availability of resource users within working hours, Financial resources
Government Agencies	Reports, Executive Summary	Conferences, workshops, seminars	Financial resources
Civil Society	Posters, Leaflets, Pamphlets, Public Service Announcement	Town-hall meetings, Group discussions, Talk Shows, Electronic Media	Financial resources

13. Any other notes (optional)

Appendix 10: Workshop evaluation

Socio-economic Monitoring by Caribbean Challenge MPA Managers (Caribbean Challenge SocMon) Workshop Evaluation, Sunset Shores Beach Hotel, 17-21 October 2011

Participant Evaluation of the "Socio-economic Monitoring by Caribbean Challenge MPA Managers" Workshop

Directions: Please rate how much you agree or disagree with each of the statements listed below.

The goal of this workshop was for MPA managers and field staff (& MPA stakeholders) to learn how to develop and implement socio-economic monitoring programs for strategically selected sites using the methods outlined within the *Socioeconomic monitoring guidelines for coastal managers in the Caribbean (SocMon Caribbean)* and *Socioeconomic manual for coral reef management*.

1. The goal for this workshop was fully achieved.

strongly agree
 agree
 neither agree nor disagree
 disagree
 strongly disagree
 I don't know

There were two objectives associated with this goal to be achieved by workshop participants:

- To introduce socio-economic monitoring using SocMon Caribbean methods.
- To develop a feasible SocMon site monitoring plan and timeline for the study site for implementation

2. The first objective of this workshop (introduction to SocMon Caribbean methods) was fully achieved.

strongly agree
 agree
 neither agree nor disagree
 disagree
 strongly disagree
 I don't know

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

strongly agree
 agree
 neither agree nor disagree
 disagree
 strongly disagree
 I don't know

4. My own (personal) expectations for why I attended this workshop were fully achieved.

strongly agree
 agree
 neither agree nor disagree
 disagree
 strongly disagree
 I don't know

5. The workshop was well organised.

- strongly agree
- agree
- neither agree nor disagree
- disagree
- strongly disagree
- I don't know

6. The workshop was well facilitated.

- strongly agree
- agree
- neither agree nor disagree
- disagree
- strongly disagree
- I don't know

7. I would recommend my colleagues to attend a workshop similar to this one.

- strongly agree
- agree
- neither agree nor disagree
- disagree
- strongly disagree
- I don't know

8. My abilities as a MPA professional (or stakeholder) have been improved as a result of this workshop.

- strongly agree
- agree
- neither agree nor disagree
- disagree
- strongly disagree
- I don't know

9. I enjoyed participating in this workshop.

- strongly agree
- agree
- neither agree nor disagree
- disagree
- strongly disagree
- I don't know

10. The things I liked most about this workshop were: (list/write)

11. The things I liked least about this workshop were: (list/write)

12. If I had to recommend that some changes be made on the workshop, they would be: (list/write)

13. Other thoughts, comments, or suggestions?