

Site monitoring plan for MPA follow-up study

1. Goal and objectives guiding socio-economic monitoring

Monitoring goal
To assess the feasibility of alternative livelihood options for the communities surrounding the Moliniere/Beausejour Marine protected Area ((MBMPA).

SMART objectives for socio-economic monitoring

Monitoring objectives (Specific, Measurable, Attainable, Realistic and Time-bound)
1. To assess how the MPA impacts livelihoods of the communities in the area.
2. To strengthen community participation in MPA management and MPA ownership based on examining potential linkages between resource protection and livelihoods.
3. To identify the socio-economic conditions that will enable alternative livelihood options: tourism and its related development.

2. Defining the study area

Study area selection criteria	Study area description (or attach area map)
Communities within the boundaries of the MBMPA.	
The community of Grand Mal which is located outside of the southern boundary of the MPA and uses the area.	
The community of Brizan located outside of the northern boundary of the MPA and uses the area.	

3. Stakeholder identification

Study area activity or issue	Primary stakeholder [and organisation]	Secondary stakeholder [and organisation]
Fishing – unable to conduct their trade within the area.	Fisher folk(seine, rock and spear fishermen, small boat fishermen)	Southern Fishermen Association, fish vendors, Spice Isle Fisheries
Recreation – Fee for use of the Park (Sculpture Park, etc.)	Community resource users(bathers, etc.)	North West Development Authority Inc.(NWDAl), Mt Moritz Community Group.

Business –Small shop owners who provide certain services and goods to the local fishermen working close to their shops/businesses.	Shop owners	Shop owners(individuals)
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4. Stakeholder locations and key informants

Stakeholders (1° and 2°)	Location of stakeholder	Key informants for stakeholders
Shop owner/Operator Ex -spear fisherman	Beausejour	Mrs. Laura George (Shop Owner) Mr. Stephen McQueen
Fish vendor	Brizan	Samskey (Fish vendor)
Community contact person Spear fisherman	Happy Hill	Mr. Sullivan Arundel Antoine
Fisherman/Resource user	Moliniere	Mrs. Bartholomew (Bather) Mr. A Mannie (Rock Fishing)
Business owner	Grand Mal	Mr. H Brizan(Guest House & Restaurant)
Mt. Moritz Community Group	Mt. Moritz	Mr. Hinds (Mt Moritz Community Group& Farmer).
NWDAI (community group)	Moliniere	Rex Edward (Vice Chairman)
Biologist	St. Georges University School of Medicine (SGU)	Mr. Steve Nimrod

5. SocMon team and tasks

Role on team (or skill requirement)	Specific tasks	Proposed team member name and affiliation
Social Scientist	Develop questionnaire and train interviewers	Mrs. Sandy-David
Biologist	Assist with questionnaire	Crafton Stroud Jr.
IT/Community Person	Data analysis	Stephen Antoine
Community Person	Community contact /liaison person	Finbar Gibbs
Students	Community contacts	Antonia& Michele
Interdisciplinary/Biologist	Assist with questionnaire, etc.	Crafton Isaac
Team Leader	Manage project	CJ

6. Work plan schedule

Activity / task	Time unit →	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	Wk8
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Activity / task	Time unit →	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	Wk8
Preparatory activities									
Define goals and objectives		■							
Plan project activities(schedules, etc.)		■							
SocMon team meeting		■							
Identify SocMon variables		■							
Secondary data collection									
Compile data from secondary sources			■	■					
Design key informants interview				■					
Conduct key informants interviews				■	■				
Primary data collection and observation									
Design household survey and pre-test				■	■				
Interviewer training				■	■				
Conduct household surveys				■	■				
Supervision of interviewers					■	■			
Make other observations					■	■			
Data analysis and interpretation									
Data entry						■	■		
Analyze data							■	■	
Report preparation		■	■	■	■	■	■		
Validation, communication, adaptation									
Announcing community venues for presentation of results.								■	■
Presentation of results to community persons.								■	■
Presentation of results to Gov't officials								■	■

7. Critical research resources required (budget and non-budget)

Resource description	Use of resource	Comments on availability
Office space, school hall, community centres	Project administration	Fisheries Conference Center (in kind)
Stationery (Note pads, markers, pens, pencils, folders, paper)	Project work	To be purchased
Flip chart paper	For prep work	To be purchased
Ink cartridges	Printing	To be purchased
Digicel credits	Communication between team	To be purchased
Gas allowance/vehicle hire	Field data collection	To be purchased
Camera	Photo Documentation	In kind
Refreshments	Community meetings	To be purchased

8. Budget

Description of expense	No. of units	Unit cost*	Total cost*
Preparatory activities			
Note pads	8	4.40	\$ 35.20
Pencils (Box)	1	5.5	\$ 5.50
Flip chart paper	1	59.8	\$ 59.80
Refreshments /Break & lunch	8	20	\$ 160.00
Folders	15	6.5	\$ 97.50
Credit package from Digicel(communication between team members and interviewers)	15	36	\$ 540.00
Pens(box)	1	55	\$ 55.00
Markers (assorted colors)	4	5.00	\$20.00
			-
Secondary data collection			\$ -
Printing paper(ream)	2	21.5	\$ 43.00
Refreshments / Lunch	8	20	\$ 160.00
Printer cartridges	1	\$84.95	\$84.95
Black	1	\$95.94	\$95.94
Color			
Interviews and observation			\$ -

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Copy paper(ream)	4	21.5	\$ 86.00
Printer cartridges Black	1	84.95	\$84.95
Color	1	95.94	\$95.94
Photocopying (Gov't Printery)	1400	0.40	\$ 560.00
Pens	1	55	\$55.00
Refreshments (soft drink, water and sandwich for community meetings and interviewers) 2 cases of water x 35.00, 2 cases of soft drinks x 55.00, Sandwich 5.00 per person x 40	40	9.5	\$ 380.00
			\$ -
Stapler	1	\$25.00	\$25.00
Staples	1	10.75	\$ 10.75
Paper Clips	1	2.75	\$ 2.75
Transportation(to and from the area)	1	\$500.00	\$ 500.00
Clip Boards	12	12.95	\$ 155.40
Sharpeners	2	2	\$ 4.00
Interviewers(stipend)	15	\$50	\$ 750.00
Supervisors(stipends)	5	\$100	\$ 500.00
Data analysis and interpretation			\$ -
Refreshments for 7 days	8	\$20	\$ 1,120.00
Validation, communication, adaptation			\$ -
Meetings in the community Centers(Brizan/Beausejour, Mt. Moritz, Happy Hill Secondary School, Grand Mal)	5	\$50	\$ 250.00
PA announcements of the meeting for presentations of data	2	\$150	\$ 300.00
TV bulletin	1	\$100	\$ 100.00
Transportation to and from the areas	1	\$200	\$200
			-
Contingency funds	1		\$138.32
*Sum total of SocMon costs			\$ 6,675.00

* = currency used [EC\$]

Budget explanatory notes (use if needed to explain calculations/estimations)

- Prices listed are in EC\$
- \$2500 US X 2.67 = \$6675.00 ECD
- Excluding contingency funds all materials and services totaled \$6536.68 EC

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9. Key variables to be monitored

KEY INFORMANT INTERVIEW/SECONDARY SOURCES VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
K1.	Study area	All	Statistical office, physical planning/ MPA maps Google maps
K2.	Population	All	Statistical office/MPA data
K3.	Number of households	All	Statistical office/ MPA data
K 4.	Migration rate		
K5.	Age	All	Key informants
K6.	Gender	All	Key informants
K7.	Education	All	Key informants
K8.	Literacy		

KEY INFORMANT INTERVIEW/SECONDARY SOURCES VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
K9.	Ethnicity		
K10.	Religion		
K11.	Language		
K12.	Occupation	All	Statistical office/key informants
K13.	Community infrastructure and business development	All	Key informant/observations
K14.	Activities	All	Key informants
K15.	Goods and services	All	Key informants
K16.	Types of use	All	
K17.	Value of goods and services	All	Key informants/ local fish vendors
K18.	Goods and services market orientation	All	Key informants
K19.	Use patterns	All	MPA data/ key informants

KEY INFORMANT INTERVIEW/SECONDARY SOURCES VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
K20.	Levels and types of impact	All	Key informants
K21.	Level of use by outsiders	All	Key informants (important data to identify possible increase in use of the resources by persons outside the MPA)
K22.	Household use	All	Key informants
K23.	Stakeholders		
K24.	Tourist profile	2, 3	Key informants/ Secondary source
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		

KEY INFORMANT INTERVIEW/SECONDARY SOURCES VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
K31.	Stakeholder participation	2,3	Key informants, MPA management
K32.	Community and stakeholder organizations	2,3	Key informants
[New]	Alternative livelihood programs	2,3	MPA management, Community group
[New]	Impacts on livelihoods	1	Key informants, MPA management
[New]	Environmental awareness and knowledge enhanced	2	Key informants, MPA management
[New]	Non-monetary benefits enhanced or maintained	2	Key informants, MPA management

SURVEY VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
S1.	Age	All	Interviewee willing to volunteer information
S2.	Gender	All	Interviewee/statistical office

SURVEY VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
S3.	Ethnicity		
S4.	Education	All	Interviewee willing to volunteer information
S5.	Religion	All	
S6.	Language		
S7.	Occupation	All	Interviewee
S8.	Household size	All	
S9.	Household income	All	
S10.	Household activities	All	
S11.	Household goods and services	All	
S12.	Types of household uses	All	
S13.	Household market orientation		

SURVEY VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
S14.	Household uses	All	
S15.	Non-market and non-use values	2,3	
S16.	Perceptions of resource conditions	2,3	
S17.	Perceived threats	2,3	
S18.	Awareness of rules and regulations	2,3	
S19.	Compliance	2,3	
S20.	Enforcement		
S21.	Participation in decision-making	2,3	
S22.	Membership in stakeholder organizations	2,3	
S23.	Perceived coastal management problems	3	

SURVEY VARIABLES			
Var. No.	Variable to be monitored	Obj. 1, 2, 3...	Secondary sources of information & practical considerations, constraints and challenges with secondary data sources and carrying out fieldwork
S24.	Perceived coastal management solutions	3	
S25.	Perceived community problems	3	
S26.	Success in coastal management	3	
S27.	Challenges in coastal management	3	
S28.	Material style of life	1,3	Interviewee
[New]			

10. Interview sample design

a. Key informants	b. Households
<p>Critical information areas</p> <p>Communities adjacent to the MBMPA (Brizan, Beausejour, Happy Hill, Moliniere, Grand Mal, Mt. Moritz)</p>	<p>Estimated number of households in study area and means of obtaining estimate</p> <p>400 households – statistical office (2001 data plus an estimated 15%)</p>
<p>No. of informants: 11</p>	<p>Approx. sample size: 6 Communities</p> <p>Brizan – 15 households</p> <p>Beausejour -62 households</p> <p>Moliniere – 66 households</p> <p>Happy Hill – 99 households</p> <p>Mt. Moritz – 76 households</p> <p>Grand Mal – 97 households</p>

a. Key informants	b. Households
<p>Selection process:</p> <p>Specific stakeholders and/or who are well known, knowledgeable of the MPA and respected in the community</p>	<p>Sample selection method:</p> <p>Areas within the community of the MBMPA</p> <p>Every 4th household for communities with over 70 households and every 2nd household for communities under 70 households.</p>

11. Visualization 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	1,2 & 3	Fisher folks from the adjacent communities of the MPA (seine, spear and boat fishing) Some activities are prohibited (boat and spear fishing) and is now conducted further away, while others are zoned (seine) and fishes are moving out of these zones.
Seasonal calendars - 125		
Historical transects - 129		
Decision trees - 131	All	(Decision web) Community users, dive shops and tour operators, community groups, MPA management. To determine the major use of the coral reef so as to identify alternative uses to minimize impacts.
Venn diagrams - 133		
Flow charts – 136		
Ranking - 138		

12. Key points to consider in data analysis and interpretation

1 Social scientist to assist with questionnaires and analyzing of data (expert)
2 Compiling a report (expert)
3 Presentation of data to stakeholders, etc.

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

Target audience	Communication product(s)	Communication pathway(s)	Practical matters
Community Members and other interested persons	Presentations/meetings	Use radio to announce to the community	Attendance ?
Government Representatives	Presentations of results	Telephone/email/meeting	Availability of these persons
MBMPA	A report	Email/meeting	

14. Plans for sustaining monitoring over the next five years

1 Another socio-economic work shop should be conducted in the next 2 years. Funding should be available from a sustainable livelihood project.
2 The MBMPA will be developed into a Management Board and will be able to seek funding for the direct management of the MPA. (Socio-economic monitoring projects are part of the management plan)
3 Implementation of community awareness programmes

15. Challenges of implementing a sustained monitoring program at your site.

1 Funding as it relates to the current status of the MPA.
2 Lack of human resources
3 Sustained bio-physical monitoring

16. Initiatives/projects that may impact on SocMon at the site and future use of SocMon for socio-economic monitoring

Initiative/project	Impact on SocMon study
Management Board	Favorable impact as the MPA will have autonomy in its direct management
Sustainable livelihood project	Favorable impact. It will have useful data to identify those whose livelihoods are affected
Community Awareness Programmes	Help in educating the public of their responsibilities and opportunities of the MPA

17. Informing MPA management and/or policy decisions in Grenada

1 Identifying the alternative livelihoods for individuals within the communities.
2 To identify potential issues (livelihood) when designating future MPAs (lessons learned)
3To develop policies and strategies to mitigate for the above mentioned

18. Potential for adaptive management using SocMon

1. Identification of persons affected economically by the MPA to develop and implement alternative livelihood projects that would benefit to the communities.
2.To encourage community participation through public outreach programmes.
3. Involvement of community members/groups at the management level will foster ownership and subsequently voluntary compliance.
4The MPA is currently seeking funds to assist with alternative livelihoods for the communities.

19. Any additional notes (optional)
