

**Report of the UNEP Regional Training Workshop on  
Socio-economic Monitoring for Caribbean Coastal Management  
(SocMon Caribbean)  
Soufriere, St. Lucia, 9 – 13 May 2005**



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## Disclaimer:

The views expressed, and any errors encountered, are entirely the responsibility of the authors and are in no way attributable to the United Nations Environmental Programme (UNEP).

# 1 Opening session

## 1.1 Introduction of organizers and participants

Dr. Patrick McConney, the training course coordinator, introduced himself as a Lecturer at the Centre for Resource Management and Environmental Studies (CERMES) of the University of the West Indies Cave Hill Campus in Barbados. He also introduced Ms Rhonda Lee as a training and research assistant also from CERMES. Dr. McConney noted that, as a resource person supporting the methodology in the English-speaking Caribbean and as a person involved in leading outreach at CERMES, he was pleased to see the interest reflected in SocMon by the number of participants attending the workshop.

Ms Heidi Savelli Söderberg, Junior Professional Officer at the United Nations Environmental Programme (UNEP) Caribbean Environmental Programme (CEP) and Regional Coordinating Unit in Kingston, Jamaica, informally opened the workshop with a few words of welcome. She noted that financial assistance for the UNEP Regional Training Workshop on Socio-economic Monitoring for Caribbean Coastal Management (SocMon Caribbean) was received from the National Oceanic and Atmospheric Administration (NOAA) Coral Reef Conservation Grant Programme and the CEP. The workshop was being implemented under the capacity building framework of UNEP-CEP, UNEP-CAR/RCU, International Coral Reef Action Network (ICRAN) Project and the Caribbean Marine Protected Area Managers Network and Forum (CaMPAM). Marine protected area (MPA) managers, and governmental or non-governmental personnel mainly from the English-speaking Caribbean, whose work is related to MPA management were selected to receive training and implement follow up socio-economic monitoring at home, at sites connected with their work.

Mr. Kai Wulf, manager of the Soufriere Marine Management Area (SMMA) that generously served as local host for the workshop, also welcomed participants to the SMMA and the conference room of the Soufriere Foundation where many sessions would be held. He wished participants a comfortable stay at their accommodation at the Still Plantation and Beach Resort on the luxuriant grounds of the plantation.

The participants from Anguilla, Antigua and Barbuda, Grenada, Jamaica, Mexico, St. Lucia, St. Vincent and the Grenadines, and Trinidad and Tobago briefly introduced themselves (Appendix 1). They appreciated being hosted and joined by the staff of one of the best known MPAs in the region. They also welcomed having colleagues from St. Lucia's Department of Fisheries at the workshop.

## 1.2 Workshop objectives and arrangements

Dr. McConney reviewed the items in the participants' folders and the workshop programme (Appendix 2). In addition to the workshop training materials, participants received several other documents and CDs related to MPAs provided by UNEP, the Caribbean Natural Resources Institute (CANARI) and the UWI Coastal Management Research Network (COMARE Net) that is managed by CERMES.

The workshop programme was accepted, and participants indicated what personal equipment (digital cameras and laptop computers) they had brought as urged in the workshop preparatory notes. The workshop logistics were addressed, including ensuring that everyone had the opportunity to tour and learn about the SMMA. Participants were divided into two teams, one of which would use Soufriere as their study site while the other would travel to Canaries with the SMMA rangers to do research there.

Participants were reminded that the workshop's practical format emphasised their role in active, rather than passive, learning. What participants got out of the workshop would be proportional to the effort that they put into the assignments, and should prepare them for conducting their own fieldwork on return. The commitment from their organisations to engage in socio-economic monitoring as follow-up to the training would be supported by grants of US\$2,000 per country represented at the workshop.

If participants completed their initial monitoring and reporting within the next few months, UNEP would consider sponsoring the presentation of results at the 58<sup>th</sup> annual meeting of the Gulf and Caribbean Fisheries Institute (GCFI) to be held in San Andres Island, Columbia, from 7-11 November 2005. This would depend on available funding and their abstracts being accepted for oral or poster presentation.

## **2 Overview of SocMon Caribbean and case studies**

### **2.1 Overview presentation**

Rhonda Lee and Patrick McConney presented an overview of the SocMon Caribbean methodology drawing upon the *Socioeconomic monitoring guidelines for coastal managers in the Caribbean* and the *Socioeconomic manual for coral reef management* (Appendix 3). Participants received electronic and paper copies of both publications.

UNEP's overall objective for the regional training workshop was to build capacity among managers, local government authorities, and local community leaders to establish socioeconomic monitoring programmes for MPAs. Hence the workshop had two specific purposes:

1. To introduce the concepts of socioeconomic monitoring based on SocMon Caribbean
2. To prepare participants to use SocMon Caribbean as an immediate follow-up

The slide presentation and discussion reflected the wide range of tools and methods that can be used in socio-economic monitoring and sharing the research results for use in decision-making. Of extreme importance are the techniques for visualising data and communicating information in simple fashion. One of the main messages of the presentation was that surveys and questionnaires alone do not constitute socio-economic monitoring, and that there are often superior alternatives especially when gathering information for the first time in baseline studies. In this respect, participants were warned to avoid contributing to 'shifting baselines'. They were strongly encouraged to conduct thorough historical analyses, including obtaining oral histories. In many cases large amounts of relatively inaccessible secondary data exists in the offices of government agencies, non-governmental organisations, university departments and private consultants. The value of validating findings with the communities studied, and of extracting the points of key learning, was reinforced.

### **2.2 Case studies**

Three case studies were presented to illustrate the diverse application of SocMon in the Caribbean. In the case of the Negril Marine Park in Jamaica the study is a work in progress, in early stages of implementation. Participants appreciated the iterative relationship between defining the study area and stakeholders. It was the comprehensiveness of the La Parguera study in Puerto Rico that caught the attention of the workshop, and in particular the use of mapping as a tool in SocMon and coastal management. The Glovers Reef study from Belize highlighted the interactions of fishing with MPA management and the representation of fishers on multi-stakeholder bodies. The cases were made available for presentation by colleagues at the Negril Coral Reef Preservation Society (NCRPS), the University of Puerto Rico (UPR) and the Wildlife Conservation Society (WCS) respectively. The cases assisted the participants to see what the organisation and products of their own research could look like. Even before this they would have the opportunity to present cases from their training fieldwork.

## **3 Study site research training and presentations**

In preparation for practical work at the two study sites the participants benefited from four additional presentations. One on Canaries was compiled by the course coordinator during a reconnaissance trip guided by a key informant recommended by the Department of Fisheries. Unlike the Soufriere Marine Management Area (SMMA), there were no prepared presentations on the Canaries/Anse la Raye Marine Management Area (CAMMA). Mr. Kai Wulf, Manager of the SMMA, presented a video and a slide presentation on that MPA, the rangers for which also maintain the CAMMA. Mr. Allan Smith of CANARI made a presentation on participatory mapping and geographic information systems (GIS)

that have been used to integrate bio-physical, socio-economic and political factors for better coastal management. Participants were keenly interested in the application of mapping and GIS techniques.

Two groups of nine participants were formed to study Soufriere and Canaries with guidance from Rhonda Lee and Patrick McConney respectively. After the study site presentations they decided on research goals and objectives before receiving background secondary data and working through the remainder of the preparatory activities set out in Appendix 4. A survey design guide is in Appendix 5.

In the morning the two groups met to share the information and experiences of the day before prior to breaking into the teams to plan the fieldwork for the afternoon on Tuesday and Wednesday. Both groups analysed their secondary data, sought information from key informants and conducted personal interviews using brief questionnaires. On Thursday afternoon the groups presented their findings for validation and constructive criticism from their peers and local stakeholders.

### **3.1 Soufriere study site**

The Soufriere SocMon team, under the leadership of Mr. David Popo, selected a management oriented goal with the focus question: "How has the SMMA initiative affected livelihoods in Soufriere over the past 10yrs?" They concerned themselves with issues of compliance and enforcement, livelihoods, marine resource uses and activities, governance, fisheries technology and practices, and perceptions of change. They conducted several interviews with key informants and completed 18 household survey questionnaires of their own design. Digital photos were taken to illustrate points in their presentation. The results were displayed in tables, charts, a seasonal calendar and other media.

Although the study was designed to accommodate the very short period for field work, and to focus on the experience of conducting a SocMon assessment, participants thought that some useful findings were obtained. Foremost was the observation that tested sampling protocols are critical in household survey design given the heterogeneous nature of settlement in Soufriere. Some parts of the town are more 'connected' to coastal and marine activities, and the SMMA, than others. However, overall there was positive feedback on several indicators of SMMA success and livelihoods. Representation of some stakeholders on the SMMA's board of management, and communication with stakeholder groups, were found to be areas of concern that SMMA management was already trying to address. In particular, stakeholders need to build their capacities in order to participate effectively in management.

### **3.2 Canaries study site**

The Canaries SocMon team, lead by Mr. Seon Ferrari, chose a development oriented goal with the focus question: "What types of development, based on marine resource use and activity in the CAMMA, are appropriate for Canaries?" They investigated past, present and proposed contributions of marine resource use to income and revenue; the challenges and opportunities connected with this; alternative livelihood strategies; and the social and cultural characteristics of the village. Unlike the Soufriere, secondary data on the CAMMA and Canaries were relatively scarce and the assessment was seen as being baseline and exploratory. In addition to key informants, 20 household survey questionnaires of their own design were administered. In addition, some of the Canaries interviewing had to be done with fishers in patois (creole) so bilingual considerations of interpretation, communication etc. were addressed in the fieldwork. Results were presented as described above.

The team was surprised at how rapidly the data accumulated in what was originally a data-poor case. An early and fundamental finding was that, unlike the case of the widely-known SMMA, it was mainly the people who used marine resources for their livelihoods who knew about CAMMA. Most of the villagers appeared not to know about the CAMMA, and therefore it was often counterproductive to use it as a point of reference in the investigation. The assessment confirmed that fishing, minor tourism and remittances from abroad sustained Canaries. Unemployment was high since there were only a few small businesses in the village, but there was an abundance of young people and children. There is a strong sense of community in the densely populated village that makes much use of the nearby river, beach and sea, but sees these resources as having only limited development potential.

### 3.3 Key learning from training

Each day participants were invited to share their training experiences and to discuss their key learning from the workshop. Several of the main points shared are set out below.

- ❖ There is an iterative relationship between preparatory planning and field research
- ❖ Planning needs to be flexible so as to accommodate surprises encountered in the field
- ❖ The assignment of specific tasks to team members increases the level of participation
- ❖ It is easy to initially be overwhelmed in the planning by the number of tasks to be done
- ❖ Preparatory planning became more efficient with practice and better team organisation
- ❖ Respondents were generally cooperative and not intimidated by the interview process
- ❖ Interviewers need to know their interview guides or questionnaires well and plan their interviews
- ❖ It is important to use good background information for planning the sampling procedures
- ❖ You need to look out for conflicts between secondary and primary data, and explain them
- ❖ One may need to “screen out” respondents who are unable to properly answer any questions
- ❖ The daily team debriefings were useful for identifying gaps and providing new perspectives
- ❖ The fieldwork assists in gaining more confidence in the methods than possible in the classroom
- ❖ The workshop was an adaptive process leading to learning; few things followed a rigid “recipe”
- ❖ Researchers must appreciate the limitations of SocMon for livelihoods analysis, gender analysis or other specialised investigations for which specific conceptual frameworks and methods exist
- ❖ The use of the SocMon variables in the research may depend on the goal of the monitoring, and additional variables may be needed, but the study may then evolve into a “one-off” assessment
- ❖ Be guided by goals and objectives to keep on track, and avoid inundation by irrelevant information
- ❖ Intensive workshops reduce the amount of time available for reflection and “higher learning”
- ❖ The initial focus (by questions or goals) may exclude other interesting and relevant avenues that are discovered in the process of doing the research; these should be flagged for later attention
- ❖ The mix of methods introduced in the training may not be included in all monitoring programmes

## 4 Preparation of proposals for follow-up studies

The last day of the workshop saw the participants preparing draft project proposals for implementation at their work sites on return home. This was assisted by the two course coordinators. A template of tables (Appendix 6) provided a simplified and standard guide. To this template the participants added background papers, maps, brochures and other documentation that they had brought to the workshop for this purpose. The proposed locations for monitoring with draft proposal authors are shown below.

| <b>Authors</b>                     | <b>Proposed location</b>                                 |
|------------------------------------|--|
| Ann Snook, Mercedes Sánchez        | Xcalak National Park, Mexico                             |
| Ashram Sankar                      | Matura Bay, Trinidad and Tobago                          |
| Hardin Jn. Pierre, David T Popo    | Point Sable Area, St. Lucia                              |
| Farah Mukhida, James Gumbs         | Shoal Bay/Island Harbour Marine Park, Anguilla           |
| Bernard Blue, Brian Zane           | Montego Bay Marine Park, Jamaica                         |
| Mark Archibald, Philmore James     | Cades Bay Marine Reserve, Antigua and Barbuda            |
| Elijah Jn. Baptiste, Peter Butcher | Soufriere marine Management Area, St. Lucia              |
| Norland Cox, Virginia Fleary-Noel  | Sandy Island Oyster Bed, Carriacou, Grenada              |
| Olando Harvey                      | Tobago Cayes Marine Park, St. Vincent and the Grenadines |

Each draft proposal was presented by the authors to the other participants and course coordinators for peer review. The process of presentation and the feedback of constructive criticism was also part

of the learning experience, being similar to what may obtain as the authors seek approval for the study designs from their various agencies that are already committed to UNEP to undertake follow-up.

## **5 Workshop evaluation and close**

All participants were asked to fill out a workshop evaluation form (Appendix 7). Seventeen out of eighteen did this and the responses were later analysed by the course coordinator. In summary, the overall assessment of the workshop varied between “okay” (4 participants) and “very good” (5 participants). Most (8 participants) rated it as “good”. Suggestions for improvement mainly concerned the logistics of catering and transportation, but more working room and time were also mentioned. A detailed evaluation report was provided to UNEP.

In closing, participants were reminded to submit revised draft proposals for SocMon Caribbean socio-economic monitoring in their country. They were also reminded that their results could be presented at the 2005 meeting of the Gulf and Caribbean Fisheries Institute (GCFI). Certificates of participation were presented to all participants. The course coordinator thanked participants for their lively enthusiasm to learn, and thanked the host (SMMA) for valuable support in workshop implementation.

## 6 Appendices

### *Appendix 1: List of participants*

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## **Appendix 2: Workshop programme**

### **Sun 8 May**

All day Arrivals

### **Mon 9 May**

0830 Introductions of organizers and participants, objectives, arrangements  
0900 Overview of SocMon Caribbean (slide presentation, discussion, handouts)  
1200 Lunch  
1300 SocMon case study presentations and further discussion of methods  
1530 Two teams form and receive study site secondary data for group work  
1800 Monday movie night: Slide show and discussion of St. Lucia study sites

### **Tue 10 May**

0830 Review study site objectives and secondary data in plenary  
0900 Develop team work plans and assign responsibility for tasks  
1000 Formulate semi-structured interview guides for key informants  
1200 Lunch  
1300 First field trip to study sites for each team to implement work plan  
1330 Key informant interviews, observation data, photos, transects etc.  
1700 Team meetings on return to analyze data, do homework (gap analysis, etc.)

### **Wed 11 May**

0830 Review results and experiences of first field trip in plenary  
0900 Teams develop household interview survey, coding sheet, data table  
1200 Lunch  
1300 Second field trip to study sites for each team to implement work plan  
1330 Administer household survey, fill in any gaps from previous site visit  
1700 Team meetings on return to analyze data, do homework (data entry, etc.)

### **Thu 12 May**

0830 Review results and experiences of second field trip in plenary  
0900 Data analysis, interpretation, conclusions, key lessons learned  
1100 Prepare team presentations of studies  
1200 Lunch  
1300 Team presentations (study site representatives invited to participate, validate)  
1500 General discussion, key lessons learnt by participants about SocMon

### **Fri 13 May**

0830 Participants prepare proposals for their MPA follow-up studies  
1100 Presentations of country proposals for MPA follow-up studies  
1200 Lunch  
1330 Presentations of country proposals for MPA follow-up studies  
1500 Final discussions, evaluation of workshop and wrap up  
1900 or later Friday fish-fry final field trip/social (to be confirmed)

### **Sat 14 May**

All day Departures

## Appendix 3: "Overview of SocMon" slide presentation

### Socioeconomic Monitoring for Coastal Management in the Caribbean

Patrick McConney and Rhonda Lee  
CERMES, UWI Cave Hill Campus

UNEP Regional Training Workshop  
Soufriere, St. Lucia, 9-13 May 2005

### Overall training objective

UNEP says:

- The overall objective of the training workshop is to build capacity of managers, local government authorities, and local community leaders to establish a socioeconomic monitoring program [for an MPA]

### UNEP SocMon timeline



|           |                                   |
|-----------|-----------------------------------|
| Mid-May   | Participate in training workshop  |
| Mid-June  | Finalise your monitoring proposal |
| Jun – Aug | Implement your SocMon study       |
| Sep - Oct | Prepare outputs and publication   |
| Early Nov | Present paper at GCFI meeting?    |

### Purpose of this workshop

1. To introduce the concepts of socioeconomic monitoring based on SocMon Caribbean
2. To prepare participants to use SocMon Caribbean as an immediate follow-up



### What is SocMon?

SocMon: guidelines on how to do socioeconomic monitoring useful for coastal management at the site level

SocMon is used with the "Socioeconomic Manual for Coral Reef Management" that contains field methods



### Benefits of SocMon

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.



## Where are nearby SocMon studies?

- **Barbados**
  - Graeme Hall Swamp
- **Belize**
  - Glovers Reef Marine Reserve
  - Laughing Bird Caye National Park
  - Gladden Spit & Silk Cayes Marine Reserve
- **Grenadines Islands**
  - Several locations across two countries
- **Nicaragua**
  - Corn Island lobster fishery
- **Trinidad and Tobago**
  - Speyside proposed MPA in Tobago



7

## 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



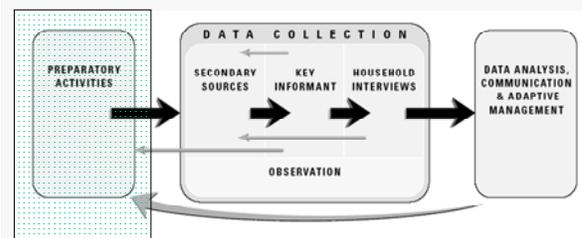
8

## How does SocMon work?



9

## Preparatory Activities



10

## Preparatory Activities

- 1) define goals and objectives
- 2) identify the process for conducting monitoring
- 3) identify the coastal management stakeholders
- 4) identify the study area
- 5) consult with the stakeholders
- 6) assemble a SocMon team
- 7) identify variables
- 8) develop a workplan
- 9) obtain government and stakeholder approvals



11

## 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



12

## Stakeholders ↔ Study area(s)

- Stakeholder analysis
  - Primary
  - Secondary
  - Interests
  - Organisations
- SMMA and CAMMA management plans
- Core coastal area
- Watershed area
- Satellite study areas



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## Consult with stakeholders

- Explain purpose, process and outcomes to 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

## The SocMon team

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



15

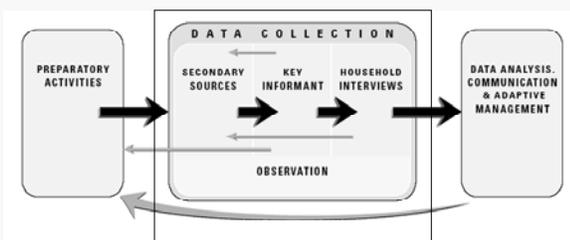
## Work-plan

The work-plan defines the:

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



## Data collection



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## What Data Do I Collect ?



**So many socioeconomic variables to choose from!**

See SocMon Caribbean Guidelines

## 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



## 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]



## 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 |

## 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   | • K23. Stakeholders               |
|                                  | • K24. Tourist profile            |

## 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                  |   |

## 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 |                                   |

## 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

## 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

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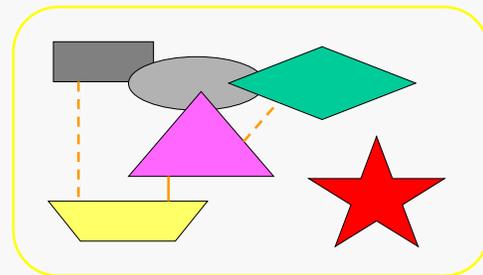
## Mapping, photos, (maybe GIS)

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



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## Organisational relationships



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## Combine local knowledge with science information

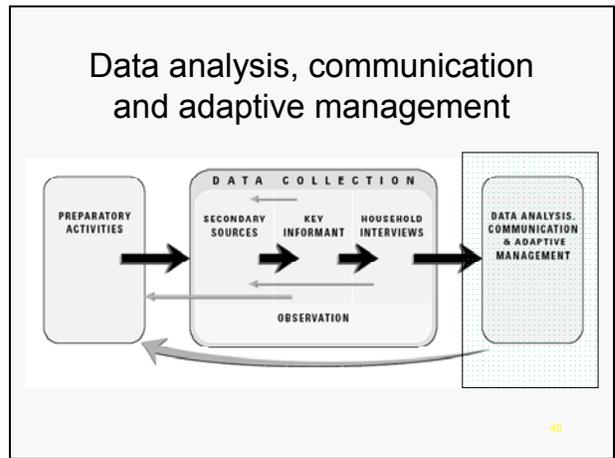
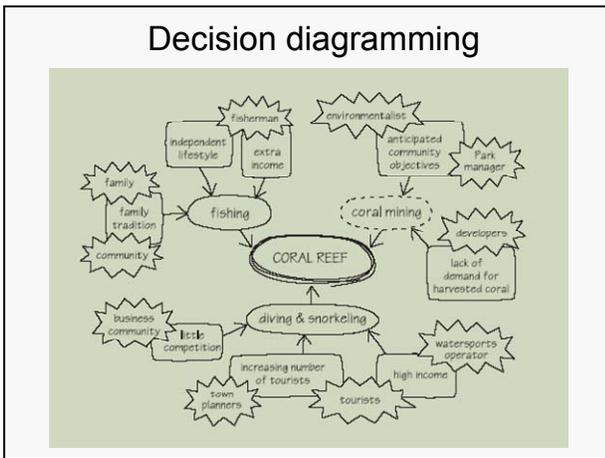
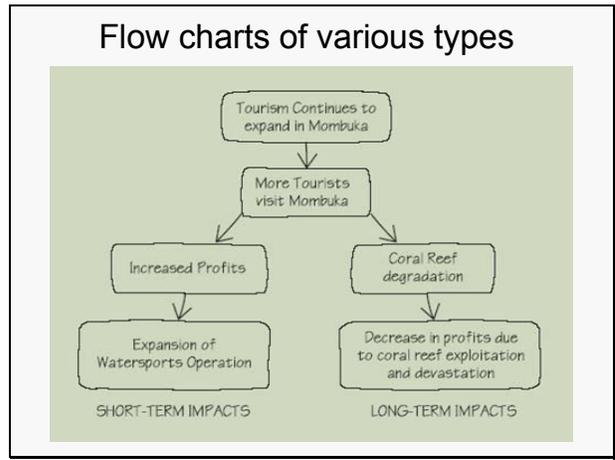
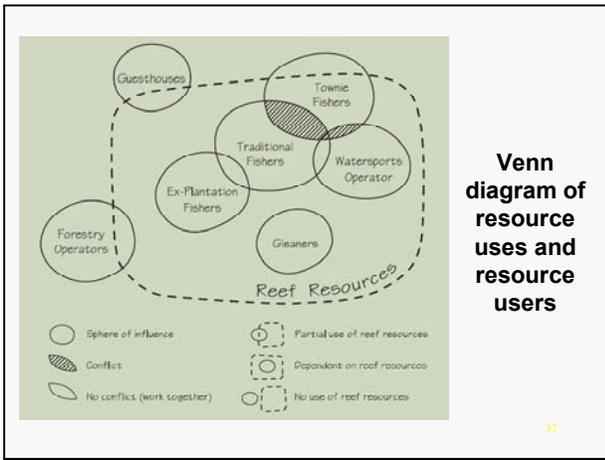
- Climatic conditions
- Life histories, cycles
- Species harvested
- Fishing vessels used
- Fishing methods used
- Processing of catch
- Trade and income
- Fish consumption
- Alternative livelihoods
- Culture and religion

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## Local knowledge and classification

| Description/<br>English name         | Species                       | Relative<br>abundance | Changes in<br>conditions | Habitat                | Name in<br>local language |
|--------------------------------------|-------------------------------|-----------------------|--------------------------|------------------------|---------------------------|
| Clam (very large, almost smooth)     | unknown                       | ●●●                   | +                        | mud / mangrove         | kai                       |
| Big spider shell                     | <i>Lambis lambis</i>          | ●●●                   | 0                        | reef                   | spider                    |
| Clam (large, white, vertical ridges) | unknown                       | ●●●                   | 0                        | reef                   | kai                       |
| Clam (large, brown, cross ridges)    | <i>Anadara spp</i>            | ●●●                   | +                        | mud                    | kai nalepa                |
| Pearl oyster                         | <i>Pinctada margaritifera</i> | ●●●                   | 0                        | sand / mud             | vilavila kiki             |
| Limpet                               | <i>Colisella striata</i>      | ●●●                   | +                        | coral islands          | kai rai                   |
| Sunset shell                         | <i>Asaphis violascens?</i>    | ●●●                   | +                        | beach / mud            | kai wi                    |
| Small top shell                      | <i>Trochus maculatus</i>      | ●●●                   | 0                        | reef edge              | peru                      |
| Clam (tiny, gray, smooth)            | unknown                       | ●●●                   | 0                        | sand beach, near rocks | sisa                      |
| Cone shell                           | unknown                       | ●●●                   | 0                        | reef                   | bakarasua                 |
| Pen shell                            | <i>Pinna bicolor</i>          | ●●●                   | 0                        | sand / mud             | mangali                   |
| Clam                                 | unknown                       | ●●●                   | 0                        | sand                   | vilavila                  |
| Small green snail                    | unknown                       | ●●●                   | 0                        | reef                   | ali mata parca            |





### 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 each occupation as secondary |   |
| Fishing                       | 65   | 32.5%   | 50                                    | 25%  | 57.5%   |
| Hotel development             | 50   | 25%   | 20                                    | 10%  | 35%   |
| Apaciculture                  | 30   | 15%   | 10                                    | 5%   | 19%   |
| Misc. (coral mining, farming) | 5  | 2.5%  | 30                                    | 15%  | 17.5%   |
| No occupation**               | 50   | 25%   | 0                                     | 0%   | 25%   |
| TOTAL                         | 200  | 100%  | 100                                   | 50%  | 150%  |

\* record together all occupations that were noted for ~5% of the household members  
 \*\* for example, unemployed, students, retired

### 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. Fishers                     | 30%  | 300   | 20%  | 30%   |
| 2. Watersports operators       | 20%  | 200   | 0%   | 0%  |
| 3. Aquaculture workers         | 20%  | 200   | 5%   | 1%  |
| 4. Hotel workers               | 5%   | 50  | 0%   | 0%  |
| 5. Farmers                     | 5%   | 50  | 20%  | 4%  |

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## 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                                | Line                     | Aqua-culture                  | Oyster                                | Medium                      |

## 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

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## How to Analyze:

Secondary Data, Key Informant info, Household Interviews, Observations

Final data analysis involves:

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



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## 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



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## 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?*)

## 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



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**Acknowledgements:** Graphics on several slides are taken from the publications

Bunce, L. and R. Pomeroy. 2003. *Socioeconomic monitoring guidelines for coastal managers in the Caribbean (SocMon Caribbean)*. GCRMN.

Bunce, L., P. Townsley, R. Pomeroy and R. Polnac. 2000. *Socioeconomic manual for coral reef management*. Australian Institute of Marine Science.

## Appendix 4: Preparatory activities worksheets

These worksheets are *guides* to organizing 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.

- *Define goals and objectives*

| Goal (category) | Objective | Specific objective (if applicable) |
|-----------------|-----------|------------------------------------|
|                 |           |                                    |
|                 |           |                                    |
|                 |           |                                    |
|                 |           |                                    |

- *Identify stakeholders*

| Activity or issue | Primary stakeholder<br>[and organization] | Secondary stakeholder<br>[and organization] |
|-------------------|---|---|
|                   |   |   |
|                   |   |   |
|                   |   |   |
|                   |   |   |
|                   |   |   |

- *Stakeholder locations and key informants*

| Stakeholders (1° and 2°) | Location of stakeholder | Key informant for stakeholders |
|--------------------------|-------------------------|--------------------------------|
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |
|                          |                         |                                |

- *Identify study area*

| Study area selection criteria | Study area description (attach map of area) |
|-------------------------------|---|
|                               |   |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

– Assemble the SocMon team

| Skill requirement / role on team | Proposed team member |
|----------------------------------|----------------------|
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |
|                                  |                      |

– Methods and visual presentation

| Objective / Specific objective | Method of data collection | Means of visual presentation |
|--------------------------------|---------------------------|------------------------------|
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |
|                                |                           |                              |

– SocMon team member responsibility matrix

| Member |          | Member |          | Member |          |
|--------|----------|--------|----------|--------|----------|
| Task   | Duration | Task   | Duration | Task   | Duration |
|        |          |        |          |        |          |
|        |          |        |          |        |          |
|        |          |        |          |        |          |

|               |                 |               |                 |               |                 |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
| <b>Member</b> |                 | <b>Member</b> |                 | <b>Member</b> |                 |
| <b>Task</b>   | <b>Duration</b> | <b>Task</b>   | <b>Duration</b> | <b>Task</b>   | <b>Duration</b> |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
| <b>Member</b> |                 | <b>Member</b> |                 | <b>Member</b> |                 |
| <b>Task</b>   | <b>Duration</b> | <b>Task</b>   | <b>Duration</b> | <b>Task</b>   | <b>Duration</b> |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |
|               |                 |               |                 |               |                 |

– *Work plan schedule*

| <b>Activity / task</b> | <b>Time unit →</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |

– *Research resources required*

| <b>Resource description</b> | <b>Use of resource</b> | <b>Comments on availability</b> |
|-----------------------------|------------------------|---------------------------------|
|                             |                        |                                 |
|                             |                        |                                 |
|                             |                        |                                 |
|                             |                        |                                 |
|                             |                        |                                 |
|                             |                        |                                 |





## Appendix 5: Survey examples of questions, coding and data table

### Questionnaire

1. How many people live in this household? \_\_\_\_\_
2. How long has this household been located in the community? \_\_\_\_\_
3. What are the 3 most important occupations of household members in order of the amount of income generated.  
 1<sup>s</sup>. \_\_\_\_\_, 2<sup>nd</sup>. \_\_\_\_\_, 3<sup>rd</sup>. \_\_\_\_\_
4. What is the household's primary, secondary and tertiary most important sources of income?  
 1<sup>st</sup>. \_\_\_\_\_, 2<sup>nd</sup>. \_\_\_\_\_, 3<sup>rd</sup>. \_\_\_\_\_
5. Is any member of this household a member of a formal and/or informal organizations?  
 Yes \_\_\_\_\_ Who? \_\_\_\_\_ What organization? \_\_\_\_\_  
 No \_\_\_\_\_ Who? \_\_\_\_\_ What organization? \_\_\_\_\_
6. How would you describe the condition of marine resources five years ago?  
 very good \_\_\_ good \_\_\_ not good not bad \_\_\_ bad \_\_\_ very bad \_\_\_.
7. How would you describe the conditions of marine resources today?  
 very good \_\_\_ good \_\_\_ not good not bad \_\_\_ bad \_\_\_ very bad \_\_\_.

### Coding sheet

|                    |   |
|--------------------|---|
| Respondent # _____ |   |
| Village _____      | 1=Placencia 2=Hopkins 3=Monkey River      |
| HHsize _____       | #   |
| HHcomm _____       | #   |
| HHocc1 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHocc2 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHocc3 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHinc1 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHinc2 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHinc3 _____       | 1=Fishing 2=diveoper 3=tourgd 4=fishgd 5= |
| HHfish _____       | #   |
| HHrec _____        | 1=Fishing 2=snor 3=diving 4=boating 5=    |
| Feinc _____        | 1=yes 0=no                                |
| Feincact _____     | 1=rest 2= 3= 4=                           |
| HHorg _____        | 1=yes 0=no                                |
| Orgwho1 _____      | 1=mother 2=father 3=son 4=daughter        |
| Orgwhat1 _____     | 1=Plac Co-op 2= 3= 4=                     |
| Orgwho2 _____      | 1=mother 2=father 3=son 4=daughter        |
| Orgwhat2 _____     | 1=Plac Co-op 2= 3= 4=                     |
| Orgwho3 _____      | 10=mother 2=father 3=son 4=daughter       |
| Orgwhat3 _____     | 1=Plac Co-op 2= 3= 4=                     |
| Orgwho4 _____      | 1=mother 2=father 3=son 4=daughter        |
| Orgwhat4 _____     | 1=Plac Co-op 2= 3= 4=                     |
| Rescond5 _____     | 1=VG 2=G 3=NGNB 4=B 5=VG                  |
| Rescond _____      | 1=VG 2=G 3=NGNB 4=B 5=VG                  |

### Data table

| Ref. | Resp # | Village | HHsize   | HHcomm  | HHocc1   | HHocc2  | HHocc3   |
|------|--------|---------|----------|---------|----------|---------|----------|
| 001  |        |         |          |         |          |         |          |
| 002  |        |         |          |         |          |         |          |
| 003  |        |         |          |         |          |         |          |
| Ref. | HHinc1 | HHinc2  | HHinc3   | HHfish  | HHrec    | Feinc   | Feincact |
| 001  |        |         |          |         |          |         |          |
| 002  |        |         |          |         |          |         |          |
| 003  |        |         |          |         |          |         |          |
| Ref. | HHorg  | Orgwho1 | Orgwhat1 | Orgwho2 | Orgwhat2 | Orgwho3 | Orgwhat3 |
| 001  |        |         |          |         |          |         |          |
| 002  |        |         |          |         |          |         |          |
| 003  |        |         |          |         |          |         |          |

**Appendix 6: Project preparation worksheet**

**Project prepared by (1) \_\_\_\_\_ (2) \_\_\_\_\_**

**Country / Territory \_\_\_\_\_**

**Name of study area \_\_\_\_\_**

**MPA status or other \_\_\_\_\_**

**Background to study**

**Study goals and objectives, or questions**

| Goal (general objective) | Purposes (specific objectives) |
|--------------------------|--------------------------------|
|                          |                                |
|                          |                                |
|                          |                                |
|                          |                                |

**Study area**

| Study area selection criteria | Study area description (also show on map) |
|-------------------------------|---|
|                               |   |
|                               |   |
|                               |   |
|                               |   |

### Main stakeholders and locations

| Study area activity or issue | Main stakeholders<br>[and organizations] | Locations of stakeholders |
|------------------------------|--|---------------------------|
|                              |  |                           |
|                              |  |                           |
|                              |  |                           |
|                              |  |                           |
|                              |  |                           |

### Key variables in this study

#### (a) Key informant interviews and secondary sources

| Var. No. | Description of variable/name | Background sources of information & comments on factors to be taken into account in monitoring | Relative importance |
|----------|------------------------------|--|---------------------|
| K1       | Study area                   |  |                     |
| K2       | Population                   |  |                     |
| K3       | Number of households         |  |                     |
| K4       | Migration rate               |  |                     |
| K5       | Age                          |  |                     |
| K6       | Gender                       |  |                     |
| K7       | Education                    |  |                     |
| K8       | Literacy                     |  |                     |
| K9       | Ethnicity                    |  |                     |
| K10      | Religion                     |  |                     |

| <b>Var. No.</b> | <b>Description of variable/name</b> | <b>Background sources of information &amp; comments on factors to be taken into account in monitoring</b> | <b>Relative importance</b> |
|-----------------|-------------------------------------|---|----------------------------|
| K11             | Language                            |   |                            |
| K12             | Occupation                          |   |                            |
| K13             | Community infrastructure            |   |                            |
| K14             | Coastal and marine activities       |   |                            |
| K15             | Goods/services from activities      |   |                            |
| K16             | Types of use of good/service        |   |                            |
| K17             | Value of goods and services         |   |                            |
| K18             | Goods / services market orientation |   |                            |
| K19             | Use patterns                        |   |                            |
| K20             | Levels and types of impact          |   |                            |
| K21             | Level of use by outsiders           |   |                            |
| K22             | Household use                       |   |                            |
| K23             | Stakeholders                        |   |                            |
| K24             | Tourist profile                     |   |                            |
| K25             | Management body                     |   |                            |
| K26             | Management plan                     |   |                            |
| K27             | Enabling legislation                |   |                            |
| K28             | Management resources                |   |                            |

| <b>Var. No.</b> | <b>Description of variable/name</b>            | <b>Background sources of information &amp; comments on factors to be taken into account in monitoring</b> | <b>Relative importance</b> |
|-----------------|--|---|----------------------------|
| K29             | Formal tenure and rules                        |   |                            |
| K30             | Informal tenure, rules, customs and traditions |   |                            |
| K31             | Stakeholder participation                      |   |                            |
| K32             | Community and stakeholder organizations        |   |                            |
|                 |  |   |                            |

**(b) Surveys**

| <b>Var. No.</b> | <b>Description of variable/name</b> | <b>Background sources of information &amp; comments on factors to be taken into account in monitoring</b> | <b>Relative importance</b> |
|-----------------|-------------------------------------|---|----------------------------|
| S1.             | Age                                 |   |                            |
| S2.             | Gender                              |   |                            |
| S3.             | Ethnicity                           |   |                            |
| S4.             | Education                           |   |                            |
| S5.             | Religion                            |   |                            |
| S6.             | Language                            |   |                            |
| S7.             | Occupation                          |   |                            |
| S8.             | Household size                      |   |                            |
| S9.             | Household income                    |   |                            |

| <b>Var. No.</b> | <b>Description of variable/name</b>              | <b>Background sources of information &amp; comments on factors to be taken into account in monitoring</b> | <b>Relative importance</b> |
|-----------------|--|---|----------------------------|
| 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               |   |                            |
| 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 |   |                            |

| <b>Var. No.</b> | <b>Description of variable/name</b> | <b>Background sources of information &amp; comments on factors to be taken into account in monitoring</b> | <b>Relative importance</b> |
|-----------------|-------------------------------------|---|----------------------------|
| S25.            | Perceived community problems        |   |                            |
| S26.            | Successes in coastal management     |   |                            |
| S27.            | Challenges in coastal management    |   |                            |
| S28.            | Material style of life              |   |                            |
|                 |                                     |   |                            |

**SocMon team**

| <b>Skill requirement or role on team</b> | <b>Name or agency of proposed team member / leader</b> |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Research resources required**

| <b>Resource description</b> | <b>Use of resource</b> | <b>Comments on availability</b> |
|-----------------------------|------------------------|---------------------------------|
|                             |                        |                                 |
|                             |                        |                                 |
|                             |                        |                                 |

| Resource description | Use of resource | Comments on availability |
|----------------------|-----------------|--------------------------|
|                      |                 |                          |
|                      |                 |                          |
|                      |                 |                          |
|                      |                 |                          |
|                      |                 |                          |

**Work plan schedule**

| Activity / task | Month → | M | J | J | A | S | O | N | D | J | F | M |
|-----------------|---------|---|---|---|---|---|---|---|---|---|---|---|
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |
|                 |         |   |   |   |   |   |   |   |   |   |   |   |

**Budget**

| Item of expense | No. of units | Unit cost* | Total cost* |
|-----------------|--------------|------------|-------------|
|                 |              |            |             |
|                 |              |            |             |
|                 |              |            |             |
|                 |              |            |             |
|                 |              |            |             |
|                 |              |            |             |

| Item of expense               | No. of units | Unit cost* | Total cost* |
|-------------------------------|--------------|------------|-------------|
|                               |              |            |             |
|                               |              |            |             |
|                               |              |            |             |
|                               |              |            |             |
|                               |              |            |             |
|                               |              |            |             |
| <b>Sum total SocMon costs</b> |              |            |             |

\*currency used = \_\_\_\_\_  
 Use US dollars if possible or give conversion rate to USD

**References, including web sites and e-document locations**

**Appendix 7: Workshop evaluation form**

Please fill out this evaluation form to assist UNEP in meeting the needs of future workshop participants. The form is to be completed and handed in at the end of the training workshop.

Kindly **circle the number** next to response that is closest to your opinion. We welcome your suggestions for improvement. These can be written on the lines below or on the back of the page

This is the key for all responses ..... 1 = poor; 2 = fair; 3 = okay; 4 = good; 5 = very good

- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| 1. UNEP workshop announcement (how you heard of the workshop).....             | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:<br>_____  |   |   |   |   |   |
| 2. Pre-workshop information (hotel, travel, preparation, documents etc.) ..... | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:<br>_____  |   |   |   |   |   |
| 3. Workshop logistics (hotel, meals, transportation, equipment etc.) .....     | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:<br>_____  |   |   |   |   |   |
| 4. Quality of training in the sessions with all participants (plenary) .....   | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:<br>_____  |   |   |   |   |   |
| 5. Quality of training in the small group sessions (study site teamwork) ..... | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:<br>_____  |   |   |   |   |   |

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 6. Quality of training during the field research at study sites in groups ..... | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:  |   |   |   |   |   |

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 7. Quality of assistance in preparing the follow-up project proposals ..... | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:  |   |   |   |   |   |

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 8. Overall quality of the UNEP SocMon Caribbean training workshop ..... | 1 | 2 | 3 | 4 | 5 |
| Suggested improvement:  |   |   |   |   |   |

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*Use the back of the form for providing additional information if you wish. Thank you.*