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



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Caribbean Challenge SocMon training workshop

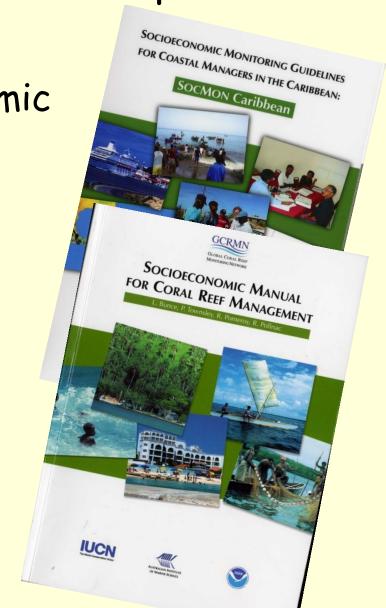




Purpose of this workshop

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 C'bbean
- · 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



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1.5 What are SocMon's limitations?	
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. WHY SHOULD I DO THIS?	
 Identifying threats, problems, solutions and opportunities 	
2.2 Determining the importance, value and cultural significance of resources and their uses	
2.3 Assessing positive and negative impacts of management measures	
2.4 Assessing how the management body is doing (management effectiveness)	1
2.5 Building stakeholder participation and appropriate education and awareness programs	1
2.6 Verifying and documenting assumptions of socioeconomic conditions in the area,	
community dynamics and stakeholder perceptions	1
2.7 Establishing baseline household and community profile	1
. WHAT'S INVOLVED?	1
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3.2 What's the process for doing the monitoring?	1
3.3 How do I collect the data?	1
3.4 Who should be interviewed for the surveys?	1
3.5 How long should the monitoring take?	1
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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

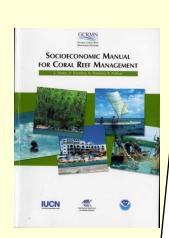
Appendix B: Sampling approaches

Glossary

Suggested readings

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SocMon history

Nov 2000

Socio-economic Manual for Coral Reef Management published: step-by-step guidelines on how to conduct socioeconomic assessments

Mar 2003 SocMon Southeast Asia published

Oct 2003 SocMon Caribbean published

Region-specific, standardised guidelines for socio-economic monitoring

Regional and national training workshops:

>200 coral reef managers SocMon capacity increased

East Africa South Asia Caribbean SE Asia

2003-2006

Regional SocMon centres established

CERMES, Barbados: English-speaking C'bbean (2K3) University of Zamorono, Honduras: Spanish-speaking C'bbean (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

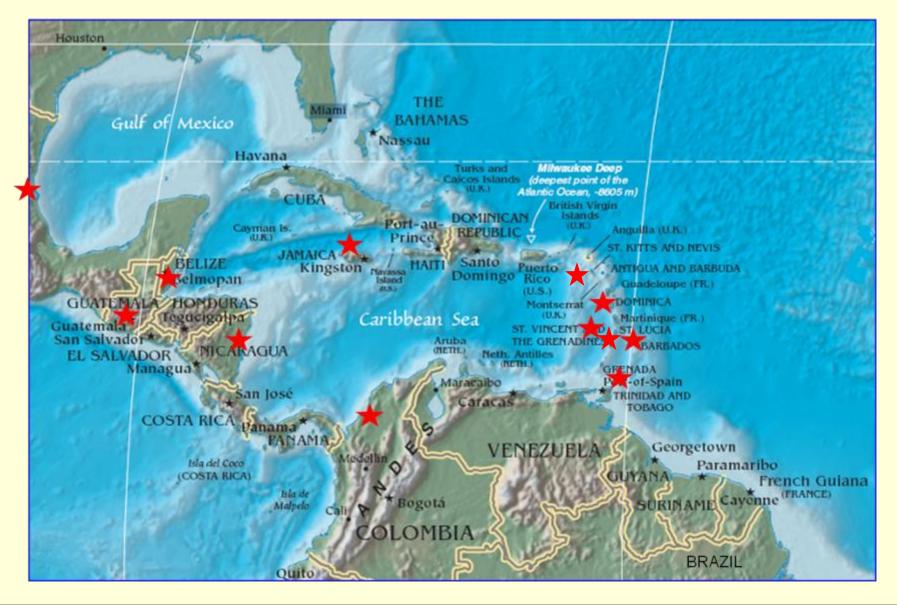


Who is SocMon for?

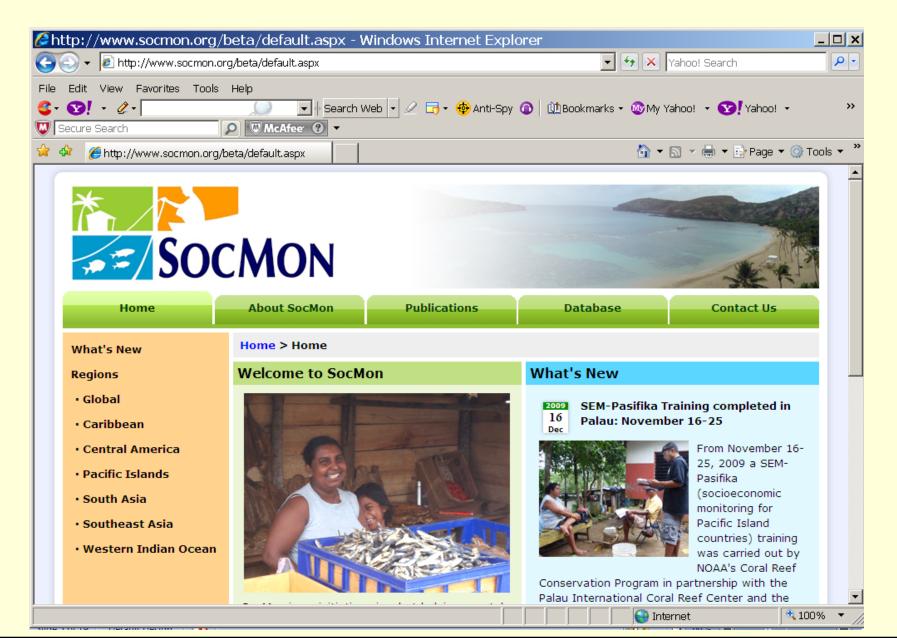
- Coastal managers (Govt. and NGOs)
- · Resource user groups
- · Community organisations
- · Donors / technical assistance
- Academic and research institutions
- · Environmental news media / public



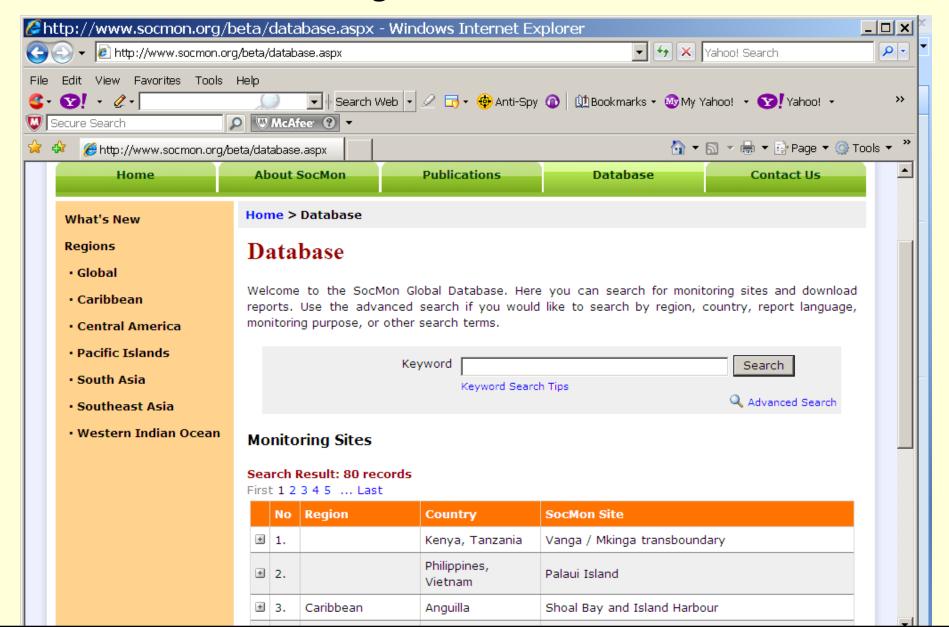
SocMon in the Caribbean



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

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

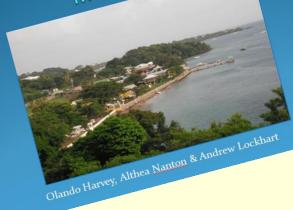
- Involve all team members
- Prioritise quality, not quantity
- Prioritise key learning (issues identified or lessons learned)
- Present key learning in accessible form for interpretation
- Validate key learning with stakeholders and incorporate into useful report and other communications

SocMon case studies

A quick look at Canaries early on Sunday morning (With not much on marine resources)

Are first impressions correct?

Socio Economic & Environmental Monitoring in the Proposed South Coast









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Preparatory activities

Identify/define the following:

Goals and objectives

Process for conducting monitoring

Stakeholders

Study area and site

Monitoring variables

SocMon team



GCRMN manual: Chapter one, Pages 19-51

Goal (Purpose of SocMon)

To collect socio-economic data to inform marine conservation and development decision-making

Objectives (Issues of interest)

Determine trends in socioeconomic 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 \(\Display \) 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

Define objectives

Management

Design management according to local socioeconomic conditions

Establish participatory coastal management

Research

Establish participatory coastal management

Development

Collect information to identify ways of limiting socioeconomic impacts of development

Establish analysis and planning process to understand socio-economic issues relating to resource use & collect information to guide planning appropriate development activities

Monitoring

Establish baseline data to monitor impacts of development on local socio-economic conditions

Establish baseline data to monitor impacts of management strategies

Policy

Collect basic information on resource to guide policy development

GCRMN manual: Pages 36-39

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



The SocMon team

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



Preparatory activities

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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



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



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



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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]

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



What Data Do I Collect? Community Level Demographics

K1. Study area

K2. Population

K3. Number of households

K4. Migration rate

K5. Age

K6. Gender

K7. Education

K8. Literacy

K9. Ethnicity

K10. Religion

K11. Language

K12. Occupation

K 13. Community infrastructure and business development



What Data Do I Collect? Coastal and Marine Activities

K14. Activities

K15. Goods and services

K16. Types of use

K17. Value of goods and services

K18. Goods and services market orientation

K19. Use patterns

K20. Levels and types of impact

K21. Level of use by outsiders

K 22. Household use

K23. Stakeholders

K24. Tourist profile



What Data Do I Collect? Governance

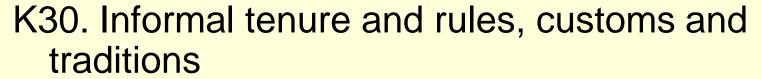
K25. Management body

K26. Management plan

K27. Enabling legislation

K28. Management resources

K29. Formal tenure and rules



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

S2. Gender

53. Ethnicity

S4. Education

55. Religion

56. Language

57. Occupation

58. Household size

59. Household income

510. Household activities

511. Household goods and services

512. Types of household uses

513. Household market orientation

514. Household uses



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



How do I collect the data?

- Observation
- Semi-structured interviews
- Group interviews
- · Oral histories
- Surveys
- *Visualisation techniques
 - maps
 - transects
 - timelines
 - seasonal calendars
 - historical transects



- venn diagrams
- -flow charts
- -ranking
- -field analysis





Mapping, photos, (maybe GIS)

Resource features

Resource uses

Infrastructure

Areas of conflict

Demographics

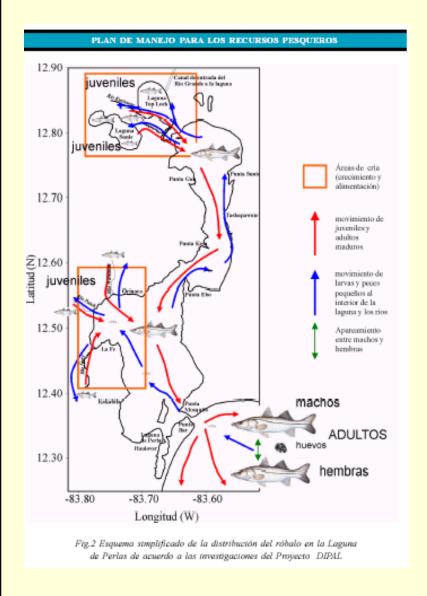
Reference sites

Boundaries, zones

Etc., etc., etc.







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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SocMon results /analysis tables

	PRIMARY		SECON	Total percent	
Occupation	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	of community members dependent on this occupation (primary and secondary)
Flshling	65	32,5%	50	25%	57.5°C
Hotel development	50	25%	20	10%	35%
Aquaculture	30	15%	60	30 G	4-5°C
Mísc.* (coral mining, farming)	5	2,5%	30	15%	17.5%
No occupatíon**	50	25%	0	05	25%
TOTAL	200	100%	160	80G	180%

^{*} 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. Flshers	60%	600	20%	10%
2. Watersports operators	10%	100	0%	0%
3. Aquaculture workers	20%	200	5%	18
4. Hotel workers	5%	50	0%	06
5. Farmers	5%	50	10%	4-8



SocMon results / analysis tables

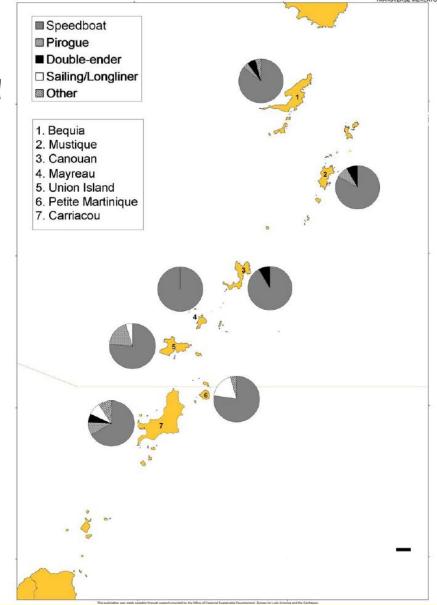
Coastal and Marine Activities	Coastal and Marine Goods and Services	Types of Use (primary)
Físheríes	Lobster	Ттар
	Grouper	Handlíne
Tourísm	Hotel	Guest houses (1–7 rooms)
	Dlvlng	SCUBA
Aqua- culture	oyster	Lĺne

Coastal and Marine Activities	Coastal and Marine Goods and Services	Value of Goods and Services	
Físheríes	Lobster	нígh	
	Grouper	Нígh	
Tourism	Hotel	меdíит	
	Dívíng	Low	
Aqua- culture	oyster	Medíum	



SocMon Caribbean guidelines: Pages 37 & 38

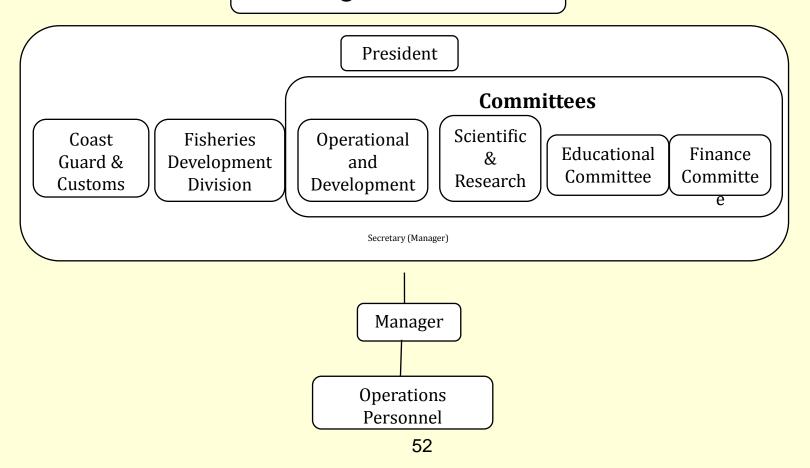
Distribution of boat type by island



Source: Gill 2007. Socio-economic profile of fisheries in the Grenadines

Chart organisational and institutional relationships

Management Board

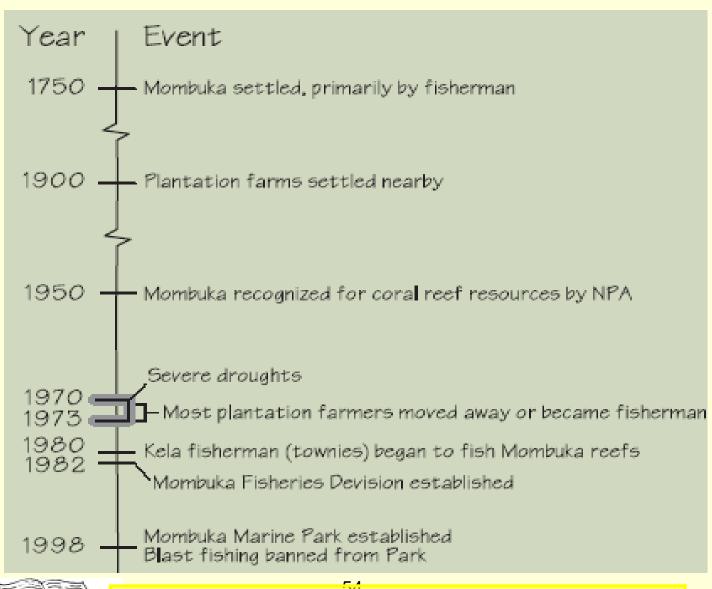


Local knowledge and classification

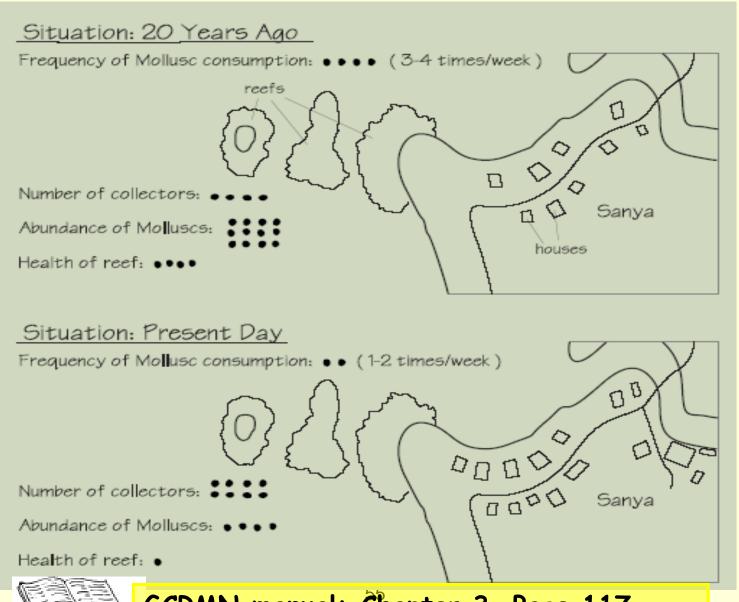
Description/ English name	Species	Re l ative abundance	Changes in conditions	Habitat	Name in loca l l anguage
Clam (very large, almost smooth)	unknown	•••	+	mud / mangrove	kai
Big spider shell	Lambis lambia	••	0	reef	spider
Clam (large, white, vertical ridges)	unknown	• • • •	0	reef	kai
Clam (large, brown, cross ridges)	Anadara spp	• • • • • • • • • • • • • • • • • • • •	+	mud	kai nalepa
Pearl oyster	Pinctada margaritifer	••	0	sand / mud	vilavila kiki
Limpet	Collisella striata	•••	+	coral islands	kai rai
Sunset shell	Asaphis violascens?		+	beach / mud	kai wi
Small top shell	Trochus maculatus	•*•	0	reef edge	pere
Clam (tiny, gray, smooth)	unknown	• • • •	0	sand beach, near rocks	sisa
Cone shell	unknown	•:•:	0	reef	baukasua
Pen shell	Pinna bicolour	••••	0	sand / mud	mangali
Clam	unknown	• :• :	0	sand	vilavila



Timelines of key events



Historical mapping of changes



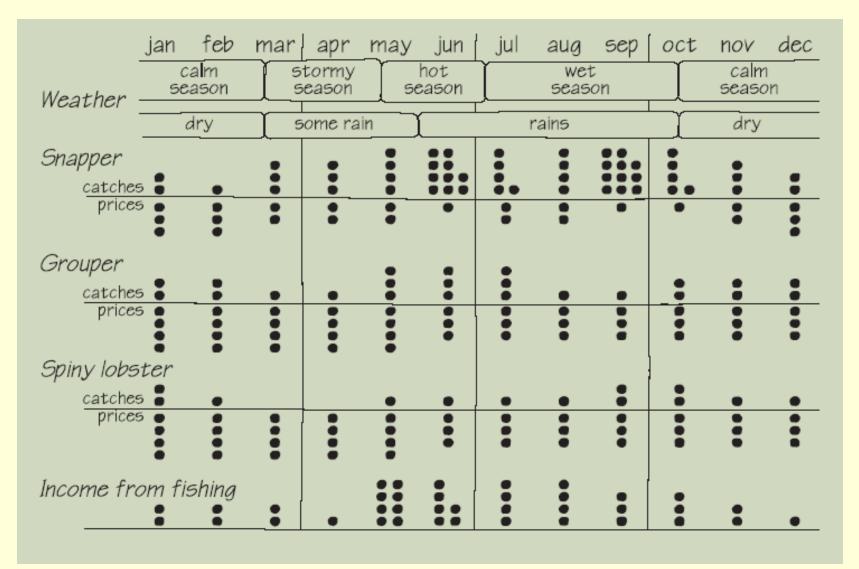
Historical transect matrix

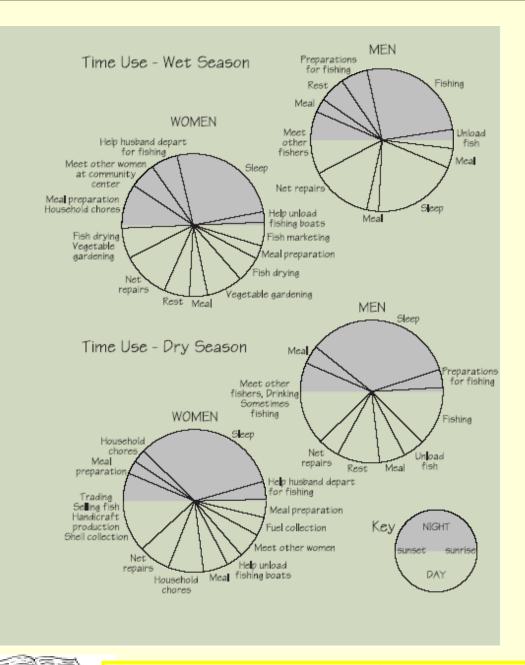
Year	Mombuka population	Income from Tourism	Number of fishers	Fish Catch	Coral Reef
1960			11		
1970			1111		
1980			有自有物介		
1990 🛱			Market M	\$\$ \$\$	
2000 =				\$ \$ \$	+
Trends	+	+	+	1	-
Îndicator	• More citizens.	More guest houses More restaurants	Crowding conflicts among fishers More licenses	Decreasing fisher income Smaller reported catch	Coral reef desease Damaged reef structure
Reasons	Fishery reputation National growth	National reputation for pristine coral reefs, fisheries	Drought Diverse fishery supported by reefs	Over fishing Coral reef habitat degradation	Sedimentation Blast fishing Increased watersports

Ranking e.g. of impact factors

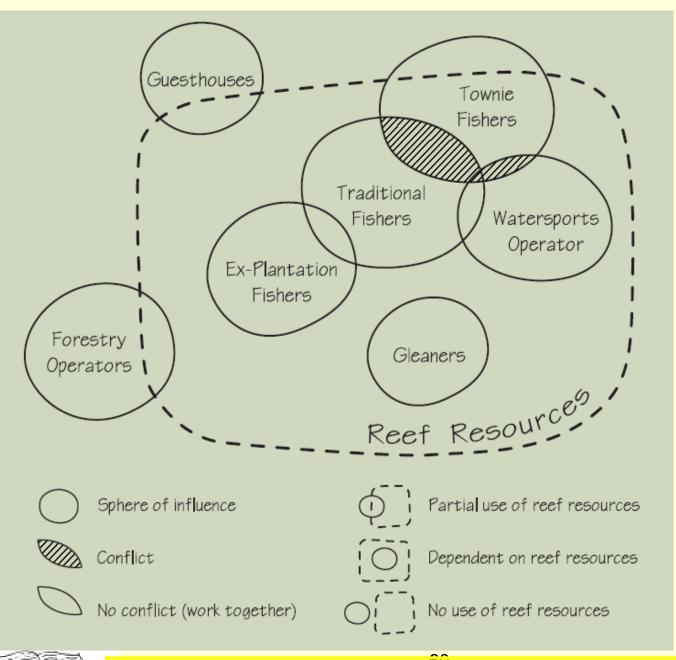
Reef Stakeholders	Number of people	% Men	% Women	% Chi l dren	Damage caused to reef
Traditional Fishers	75	95 %	0%	5%	● ● Least
Ex-Plantation Fishers	40	80%	0%	10 %	Medium
Townie Fishers	65	75 %	0%	25 %	Highest
Women Gleaners	30	0%	60 %	40 %	Medium highest

Seasonal calendar



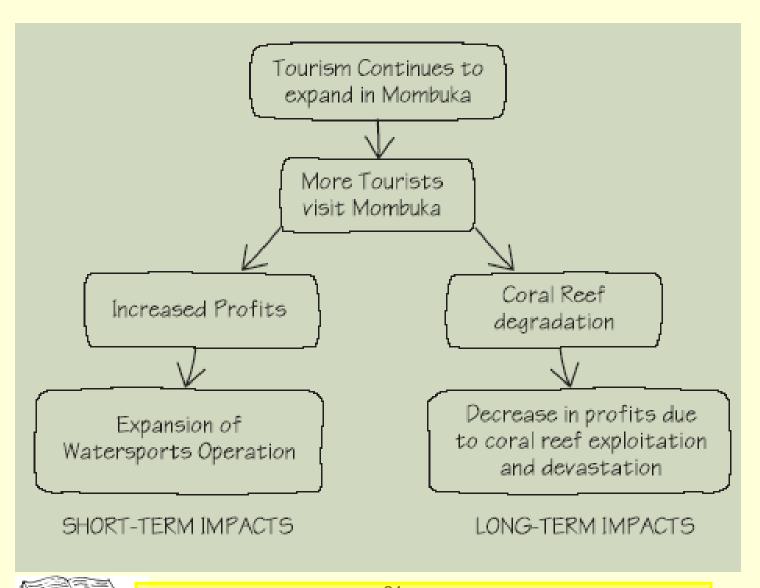


Daily and seasonal time use patterns

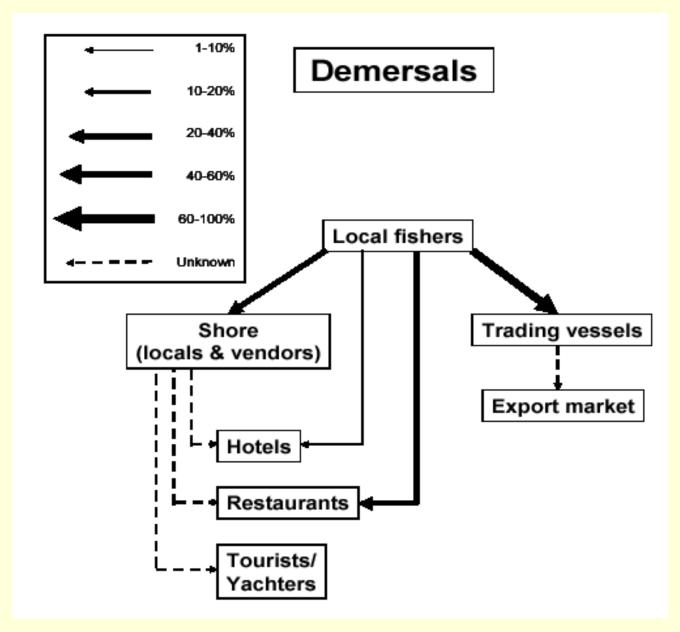


Venn
diagram of
resource
uses and
resource
users

Flow charts of various types

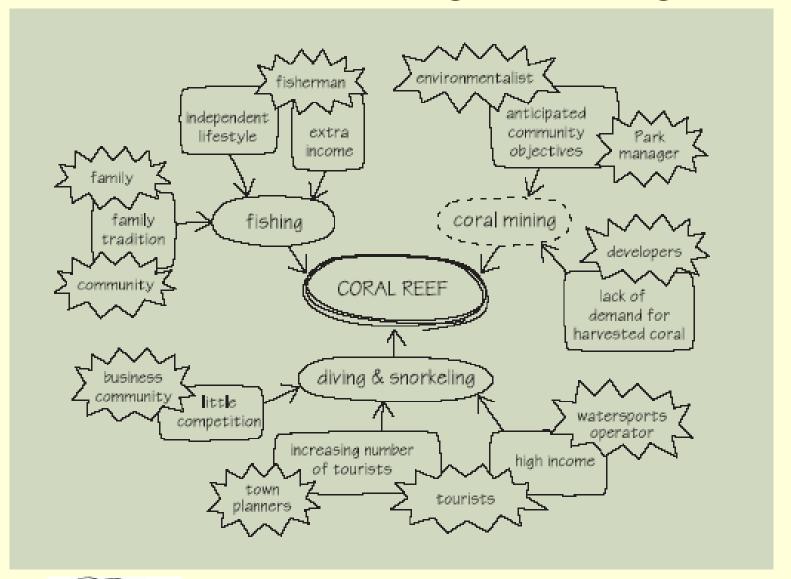






Source: Gill 2005. Soio-economic profile of fisheries in the Grenadines

Decision diagramming



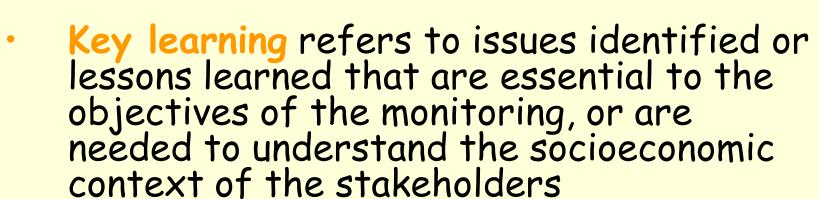


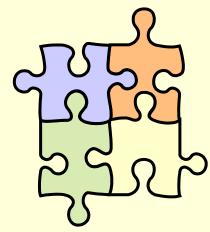
How to Analyze:

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





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



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



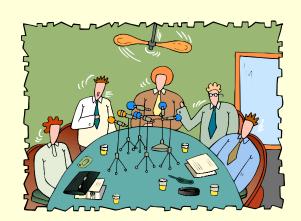


Communication choices

- · 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?)

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



Thank You



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