# R8317 **Institutional Arrangements for Coastal Management in the Caribbean**

FTR Annex A: Project Report

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# R8317 Institutional Arrangements for Coastal Management in the Caribbean

# **Annex A: Project Report**

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## 1 INTRODUCTION

## 1.1 Background

The Caribbean Natural Resources Institute (CANARI), the Caribbean Conservation Association (CCA) and the Marine Resources Assessment Group Ltd. of the United Kingdom (MRAG) have collaborated in the implementation of a project entitled "Institutional arrangements for Coastal Management in the Caribbean". Other partners included the University of the West Indies' Centre for Resource Management and Environment Studies (CERMES) and the University of Puerto Rico's SeaGrant College Program. This project (reference R8317) was funded by the UK Department for International Development (DFID) as part of the Land-Water Interface (LWI) component of its Natural Resources Systems Programme (NRSP).

The processes and institutions required to achieve integrated and equitable natural resource management in the coastal zone in the insular Caribbean are complex, and they have not received much attention in the past. The Caribbean is, by definition, a coastal region, a region where coastal resource management is critical to sustainable human development. Even when there are no large-scale economic activities (resort tourism, transportation, urban settlements, industry), the value of coastal resources remains high, as they provide a range of social and economic goods and services to local communities and offer great potential for economic development and diversification. However, because the coastal zone is subject to a range of severe environmental impacts from both terrestrial and marine sources, environmental degradation, resource use conflicts and unsustainable forms of resource use are threatening this value. Coastal resource management issues are therefore both urgent and important to the social and economic development of the region.

In spite of this reality, the place of coastal resources in livelihood strategies and the potential contribution of coastal resource management to social and economic development, and especially to poverty reduction, are not well understood in the region. The links between coastal management, sustainable livelihoods and poverty reduction are currently weak, because:

- the concept of integrated coastal zone management is inadequately understood by policy makers;
- most of the agencies that are responsible for coastal planning, management and development do not have a livelihoods perspective, and are not directly concerned with poverty reduction and social development agendas;
- coastal zone management plans and instruments such as Marine Protected Areas (MPAs) play a significant role in coastal resource management, but most are not integrated into broader social and economic development strategies and thus have a less than optimal impact on local livelihoods and community development;
- the "big issues", especially those that relate to the development and management of ports, industrial plants and large-scale tourism infrastructure, have received and continue to receive the attention of researchers and planners,

but there is too little research being carried out on the "small issues", in spite of their relevance to thousands of people in small coastal communities;

• the scientific and development literature from other regions of the world is extensive and useful, but it does not always apply to the specific conditions of the insular Caribbean.

Over the past six years, research projects funded by DFID under the NRSP have made substantial contributions to improved understanding of the processes and institutions required to achieve integrated and equitable natural resource management in the coastal zone in the insular Caribbean. The primary focus of the R8317 project has thus been on the identification, testing and dissemination of the strategies and pathways that can best ensure that the lessons, methods and tools gained from Suite 1<sup>1</sup> NRSP-funded projects and other complementary research projects are communicated effectively.

## 1.2 Project Overview

At the regional inception workshop that was held in San Juan, Puerto Rico in November 2003 (see Appendix 1 for workshop report), it was agreed that the overall purpose of the project should be reframed as: "to change policies and practice in order to effectively implement integrated and equitable natural resource management in the coastal zone".

The project was then conceptualised as four experiments designed to test communication strategies with a range of target audiences and differing sub-objectives of the overall purpose:

- Experiment 1: to test uptake of policy messages at the national level (led by CANARI)
- Experiment 2: to test uptake and effectiveness of co-management tools and methods for training natural resource managers (led by CCA in association with CERMES).
- Experiment 3: to test uptake or effectiveness of methods and tools for integrated and equitable management (led by CANARI).
- Experiment 4: to test uptake of a research agenda (led by CANARI).

All project activities were designed as contributions towards the production of a comprehensive Communication Strategy and toolbox that would provide a framework for the on-going dissemination and promotion of integrated and equitable approaches to coastal resource management and development in the Caribbean region.

#### 1.3 Definitions

The definitions which have been adopted for this project are:

Term	Definition
Results	Public policy messages, management tools, and research priorities

<sup>&</sup>lt;sup>1</sup> The Suite 1 projects are: Institutional and technical options for improving coastal livelihoods (CANARI, reference: R7559); Institutional arrangements for Caribbean Marine Protected Areas and opportunities for pro-poor management (MRAG, reference: R7976); and Requirements for developing successful co-management (CCA, reference: R8134).

Term	Definition
	coming out of the research projects.
Target audiences	Specific audience segments to which the messages will be addressed, e.g. coastal resource users, public officials, resource managers, local residents. These audiences can also be defined as <i>coastal management stakeholders</i> .
Products	Materials that synthesise and package the results in forms (e.g. case studies, video documentaries, training curricula, PowerPoint presentations, policy briefs) appropriate for dissemination to specific target audiences through appropriate pathways.
Pathways	Channels and activities through which results and products are delivered to target audiences (e.g., distribution of print materials, use of intermediaries, meetings, field visits, training workshops, visual presentations, mass media).
Uptake	Acceptance and use of products by target audiences, as evidenced by changes in practices, behaviours, attitudes, institutional arrangements and policies.

## 2 METHODOLOGY

### 2.1 Common Elements

As noted above, the project was launched with a regional inception workshop in Puerto Rico in November 2003 which validated a list of key messages extracted from Suite 1 research and then defined the respective experiments. Although each experiment was conducted discretely, it was agreed that they should be grounded in a common methodology, namely:

- The prioritisation and selection of the most important messages for the respective experiment target audiences;
- Compilation of a table outlining the baseline knowledge, awareness and practices of the respective experiment target audiences;
- Development of an initial experiment communication plan, including objectives, target audiences, products, pathways, evaluation methodology, barriers to uptake and identification of non-project dissemination opportunities, such as workshops and seminars;
- Development of an implementation and evaluation workplan;
- Production of a final report for each experiment.

The communication plan summaries in table format for each experiment are attached at Appendix II and the detailed experiment reports, including experiment products, are appended as Annexes B-E.

In addition, two communication specialists were contracted to produce inception and mid-term communication plans to guide the project, as well as a regional communication strategy based on project learning. This Communication Strategy is appended at Annex B.

## 2.1 Experiment 1

#### 2.1.1 Overview

Experiment 1, which was conducted by CANARI between June 2004 and September 2005, was designed to identify and test the ways in which policy messages related to equitable and integrated natural resource management in the coastal zone can best be communicated to those who play a significant role in policy formulation and implementation at a national level in the Caribbean region. Trinidad was selected as the research site on the basis that its policy and institutional framework for natural resource management in the coastal zone was sufficiently well-developed to facilitate dissemination of the messages. Monitoring of uptake within the relatively short project timeframe would also be facilitated by the fact that CANARI's head office is based in Trinidad. Tobago was excluded because its policy environment differed significantly from that of Trinidad.

#### 2.1.2 Experiment Activities

The core activities during the design and implementation phase comprised:

- Baseline analysis of the institutional framework for natural resource management in the coastal zone;
- National inception workshop in June 2004 with senior representatives from various government agencies, academic institutions, non-governmental organisations (NGOs) and private consulting companies to validate the baseline and design the communication plan;
- Development and dissemination of two 2-page briefing papers entitled Coastal Zone Management: Whose responsibility and Integrated Coastal Zone Management: benefiting people for promoting experiment messages;
- Development of a diagram mapping the state agencies involved in coastal zone
  planning and management in relation to major terrestrial and marine activities for
  use at ministerial meetings and at meetings of Chief Technical Officers (CTOs) in
  the public sector
- Meeting with the Minister of Public Utilities and the Environment, both to sensitise
  her to the messages and to explore the possibility of her acting as an
  intermediary in organising a larger meeting with her other Cabinet colleagues
  with responsibilities for aspects of coastal zone planning and management;
- Discussions and meetings with environmental journalists to solicit help in disseminating experiment messages;
- Arrangement of a field trip for public sector CTOs to a coastal community in north-east Trinidad to discuss the role of public sector agencies in coastal zone management and its relation to coastal livelihoods;
- PowerPoint presentation entitled The linkage between land-based activities, coastal resources management and coastal livelihoods, and the role of public agencies – Trinidad to a multi-sectoral audience comprising CTOs, representatives of the private sector (oil and gas industry), and community based organisations;
- PowerPoint presentation entitled:"Influencing coastal zone management policy in Trinidad: challenges and opportunities" at the regional seminar Improving Coastal Livelihoods: lessons learned from experiences and priorities for research in Soufriere, St. Lucia in July 2005.

The following activities were also initiated but could not be completed within the project time frame due to the difficulty of finding dates which suited both presenters and participants:

- Breakfast meeting with five key government ministers;
- PowerPoint presentation (in conjunction with presentation of Experiment 4
  messages) at a specially convened meeting of Health, Safety and Environment
  (HSE) professionals from national and multinational oil and gas companies,
  together with their colleagues from Public Affairs and Community Relations
  Departments.

However, CANARI still intends to pursue these opportunities over the next few months.

#### 2.1.3 Experiment findings and conclusions

Experiment findings and conclusions can be divided into two main categories: those that relate to the specific institutional context in Trinidad and those that provide broader regional lessons about the dissemination and uptake at a national level of policy messages related to equitable and integrated natural resource management in the coastal zone.

#### 2.1.3.1 Trinidad institutional context

- No common definition of the coastal zone was shared by all stakeholders;
- The institutional and policy framework in Trinidad is complex as it involves overlapping environmental policies and ministries, public agencies and committees, leading to a lack of clarity about who has management responsibility in the coastal zone.
- Levels of awareness of, and openness to, messages about the need for
  equitable and integrated coastal zone management varied significantly,
  necessitating the production of two briefing papers, one sensitising the target
  audience to the issues and the second advocating an integrated and livelihoodssensitive management approach.

## 2.1.3.2 Uptake promotion lessons

- Creating a climate for policy change can be effected more rapidly if multiple audiences are targeted simultaneously (e.g. ministers, senior technical staff, civil society change agents, influential private sector companies);
- Since few channels currently exist for inter-sectoral dialogue between government agencies and departments, strategies such as the field trip or breakfast meeting, which bring together stakeholders from several sectors, can be particularly effective;
- The consultative process used in the design of the main products (using
  participants from the inception workshop) was effective in fine-tuning the
  messages and pathways to the respective audiences but resulted in later-thananticipated dissemination, which in turn reduced the likelihood of uptake at the
  level of actual policy change;
- Senior ministers and technical staff have a preference for short briefing papers of 1-2 pages in length, with bulleted text, tables and examples from relevant case studies, preferably from the region;

 Products worked best when used together or sequentially, rather than as standalone products and preferably in face-to-face presentations or meetings;

A full report of Experiment 1, including experiment products, is appended at Annex C

## 2.2 Experiment 2

#### 2.2.1 Overview

Experiment 2, which was implemented by CCA and CERMES between April 2004 and September 2005, was designed to:

- identify the ways in which tools and messages can effectively and efficiently be made available to the personnel of tertiary education and training institutions, particularly the teaching staff;
- highlight the ways in which these people and institutions can be informed of the benefits to be derived from the inclusion of such tools and messages within their curricula and programmes.

The experiment focused on products from the Suite 1 project on coastal resource comanagement (R8134), with attention to marine protected area (MPA) management (R7976) and coastal livelihoods generally (several projects). The primary target for the experiment was the Cave Hill Campus of the University of the West Indies (UWI) in Barbados. However, within the constraints of time, logistics and budget, the experiment was extended to the other campuses of UWI (in Jamaica and Trinidad) and to another university in the wider Caribbean (in Nicaragua).

#### 2.2.2 Experiment Activities

The core activities during the design and implementation phase comprised:

- Inception workshop at the Cave Hill Campus in July 2004 with lecturers and persons in information services;
- Production and delivery of an enhanced slide presentation of the comanagement guidelines developed under R8134 (see Appendix IE and/or Annex D, Appendix 2 for full reference) e.g. use of Caribbean photographs, breakdown of complex concepts, together with lecture notes focusing on the concepts and conditions for successful co-management);
- Drafting of summaries of lessons learned from the six coastal comanagement case studies produced under R8134 (see Appendix IE and/or Annex D, Appendix 2 for full references);
- Production of a CD with co-management guidelines, case studies with summaries and comparative analysis for distribution at meetings and workshops;
- Use of the Suite 1 and new products in three CERMES graduate courses;
- A series of informal workshops with Cave Hill faculty and staff to test materials and elicit feedback;

- Internet promotion and dissemination of products via CCA and CERMES websites with linked promotion of CANARI and MRAG websites;
- Use of the DFID-funded UWI Coastal Management Research Network (COMARE Net) to distribute the original products from Suite 1;
- Meetings with relevant faculty at UWI Mona and St. Augustine at which products were distributed and potential uses discussed;
- Use of guidelines and enhanced slide presentation in graduate course at UWI Mona and Co-management workshop in Belize;
- Use by a lecturer from the Bluefields campus of the Universidad de las Regiones Autónomas de la Costa Caribe Nicaraguense (URACCAN), Nicaragua of the slide presentation handout at an outreach workshop on comanagement and responsible fisheries;
- PowerPoint presentation on Coastal resource co-management at the regional seminar Improving Coastal Livelihoods: lessons learned from experiences and priorities for research in Soufriere, St. Lucia in July 2005.

#### 2.2.3 Experiment findings and conclusions

- The products tested and their associated messages were well received by the target audiences and were an effective means of informing them about the concepts of coastal co-management;
- Several lecturers expressed willingness to incorporate the materials in their courses, but not all were able to do so within the project time frame;
- Students tended to respond better to practical exercises than to conceptual debates and discussion-oriented seminars, and lecturers have observed a general student decline in interest in the conceptual aspects of academic topics in favour of more job-oriented skills development;
- More widespread use of the products could be facilitated by packaging them as self-contained learning modules;
- The CANARI Mankòtè mangrove educational pack was the only "prepackaged" product being extensively used by lecturers and reflected their preference for video or DVD materials based on relevant case studies and including prompts for classroom exercises;
- The addition of small group exercises and games alongside the slide presentation was a useful tool when applied in an outreach context;
- Products need to be made available electronically although opportunities for incorporation of the materials in an online course appear limited at present but may be an option in the future;
- Discussions at UWI Mona and St Augustine highlighted the large amount of relevant grey literature from other projects and consultancies, which is often difficult to access and poorly promoted but could provide additional useful case study material;
- Discussions also reinforced the findings of Experiment 1 that conflicting and competing jurisdictions in the coastal zone are a persistent problem and that policy briefings could usefully address the need to change the currently constraining policies on participation in many Caribbean countries,

## 2.3 Experiment 3

#### 2.3.1 Overview

Experiment 3, which was implemented by CANARI between June 2004 and September 2005, was designed to test the uptake and effectiveness of methods and tools for integrated and equitable coastal resource management.

The experiment targeted one representative group of coastal area managers: managers of MPAs throughout the Caribbean and their partners, including organisations and programmes providing technical support to MPA management. This group was selected as the target because:

- MPAs play a significant role in coastal resource management, but most MPAs are not integrated into broader social and economic development strategies and thus have a less than optimal impact on local livelihoods and community development;
- Caribbean MPA managers have expressed a need for tools and approaches for increasing the contribution of MPAs to larger coastal management and local development strategies and requirements;
- many of the results and products of recent research, particularly that carried out through Suite 1 projects, are particularly relevant to this need.

## 2.3.2 Experiment Activities

The core activities during the design and implementation phase comprised:

- An inception seminar entitled Finding Common Ground: A Seminar for Marine Protected Area Managers and Fishing Communities held in Negril, Jamaica in June 2004 with a representative sample of the experiment's target audiences, including MPA managers, resource users and co-management partners, community representatives and technical advisors to identify:
  - a set of key messages as the basis for the subsequent products;
  - o target audiences' information needs and pathway preferences;
  - skills needs and training pathway preferences.

The inception seminar was also used to determine the effectiveness for uptake promotion of a seminar format (including a field trip through the Negril Marine Park), with a very mixed group of participants.

- Development of a 4-page Policy Brief entitled Marine Protected Areas and Sustainable Livelihoods followed by promotion on the Coastal and Marine Protected Area Managers network (CaMPAM) and dissemination both by mail and electronically (via CaMPAM and CANARI's webpage);
- Testing of the Internet as a pathway for information via the creation on CANARI's website of a webpage entitled MPAs and Coastal Communities which included pdf downloads of relevant Suite 1 and other project documents;
- Development and delivery in April 2005 of a one-day training module entitled MPAs and Sustainable Coastal Livelihoods intended primarily for MPA

- management staff but on this occasion delivered to a broader audience including local conservation NGOs, fishers and tourism sector interests;
- Development of a case study of the Negril Marine Park and coastal livelihoods based on existing materials as well as new research, and designed to be delivered in multiple complementary formats including:
  - Large posters (2 of 7 completed)
  - Field trip (not possible within project timeframe)
  - Structured panel discussion (not possible within project timeframe)
  - PowerPoint presentation of the case study's main lessons (completed)
  - Handouts to accompany several of the above components (completed)
- Delivery of the PowerPoint presentation and display of two posters and several handouts from the case study at the regional seminar *Improving Coastal Livelihoods: lessons learned from experiences and priorities for research* in Soufriere, St. Lucia in July 2005.

#### 2.3.3 Experiment findings and conclusions

- The experiment helped to expand the range of products available on MPAs and sustainable coastal livelihoods in the region, as well as the potential audience.
- Most products appeared to be effective in engaging their audiences and increasing their understanding of and sensitivity to the issues; there was also evidence of the use of tools and approaches.
- The experiment target audiences speak a wide range of languages and idioms.
   Materials prepared in technical English can only reach a small proportion of that
   audience. Specifically, the policy brief and webpage need to be translated into
   Spanish.
- Because the target audience is highly diverse, there is a need for a diversity of
  products and pathways to reach them. Strategies that are highly effective for
  reaching some segments of the audience may completely miss others. Similar
  messages therefore need to be conveyed in a variety of ways and through a range of
  channels. The differing viewpoints and frames of reference of audiences also need to
  be taken into account.
- Guided discussions, semi-formal presentations and field trips can be more effective than tangible products in communicating concepts because they allow people to draw on their own context and experience and provide space for interactive discussion.
- Products cannot simply be offered; they need to be disseminated in strategic ways and with appropriate follow-up. This implies partnerships with those agencies and organizations with greatest access to the main target audiences for the products.
- There is an apparently large international audience for material on MPAs and coastal livelihoods, and Internet-based pathways may serve this audience better than it does its intended target audience in the region. Rates of response to products disseminated through the Internet need to be examined with care to assure that they actually indicate effective dissemination to target audiences.
- Uptake of tools and approaches appears highest when stakeholders can immediately apply them. This suggests that strategies to disseminate tools and approaches include their application to real issues that the target audience is dealing with.

- Reinforcement of messages helps assure uptake so strategic design of any communication activity must include provision for follow-up.
- Uptake is facilitated by discussion that challenges stakeholders' preconceived ideas, and bringing diverse groups of stakeholders together contributes to this process.
   People tend to remember and be influenced by the outcomes of difficult debates and arguments.
- Case study material stimulated widespread interest and funding should be sought to complete it and to target it at new audiences.

A full report of Experiment 3, including experiment products, is appended at Annex E

## 2.4 Experiment 4

#### 2.4.1 Overview

Experiment 4, which was implemented by CANARI between July 2004 and September 2005, aimed at identifying, testing and documenting the ways by which a specific research agenda can be developed and incorporated into the priorities, programmes and activities of research institutions, with a focus on integrated and equitable coastal resource management, and with a particular attention to policy, institutional arrangements, governance, and approaches to poverty reduction.

It was based on recognition of the need for new and increased research efforts that involve a range of disciplines and methods, towards a better understanding of coastal management and development issues, and towards the participatory definition of suitable policy, institutional and technical responses to these issues. While earlier NRSP projects have made substantial contributions to this understanding in the insular Caribbean, they have also served to identify and highlight research gaps, priorities and opportunities that now need to be conveyed to the various institutions and actors who are in the position to influence and implement research activities in this domain.

#### 2.4.2 Experiment Activities

The core activities during the design and implementation phase comprised:

- A brief baseline study of recent and current research in integrated and equitable natural resource management in the coastal zone.
- A compilation and analysis of the main messages arising from Suite 1 projects.
- A scientific meeting held in Trinidad in July 2004, attended by 12 participants including the two communications specialists, representatives of CCA, CANARI and the University of the West Indies (Cave Hill, Mona and St Augustine Campuses) that:
  - o Reviewed the baseline study.
  - Reviewed the main results available or expected from recent and current research.
  - o Identified the main research priorities and opportunities in the region.
  - o Identified the target audiences.
  - Identified the pathways available to promote a research agenda with the various target audiences.

- Developed a communication plan (including monitoring and evaluation procedures) to promote the agenda with the various target groups.
- Development of a 4-page Policy Brief entitled "Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean" and dissemination by mail and at a number of regional workshops and seminars.
- Development of a poster on the theme of "Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean" and dissemination by mail and at a number of regional workshops and seminars.
- Development of a basic PowerPoint presentation on "Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean" which was tailored to suit the needs and interests of individual target audiences, and testing of the presentation with several audiences.
- Co-sponsoring and participating in a seminar on "Improving Coastal Livelihoods: Lessons Learned from Experience and Priorities for Future Research" held in Soufriere, Saint Lucia in July 2005 on the occasion of the 10<sup>th</sup> Anniversary of the Soufriere Marine Management Area (SMMA). The seminar coincided with the final phase of R8317 as well as that of other projects that share a common vision of development and a common ambition to contribute to the strengthening of coastal livelihoods through sustainable resource use, participatory governance and empowerment. The objectives of the Seminar were to:
  - share, compare and analyse experiences and lessons learned in research and development work on coastal livelihoods and coastal resource management in the eastern Caribbean, including Trinidad and Tobago;
  - share information on current research and results obtained;
  - o identify and define opportunities and priorities for future research.

A report of the seminar has been produced and is available on request from CANARI.

### 2.4.3 Experiment findings and conclusions

#### 2.4.3.1 Pathways and products

- Effective uptake promotion of key messages must begin with a face-to-face interaction, for example in a seminar or workshop setting;
- Products such as the PowerPoint presentation, policy brief and poster that were developed and tested in this experiment can be useful in the advocacy process but need to be introduced by other pathways, in order to generate interest and receptivity;
- The most efficient pathways are often those that are based on normal and regular activities of the intended targets. For example, in this experiment, the primary message was one of change, and the best way to convey this message of change is to carry it into the existing forums and processes of the target groups and institutions.

#### 2.4.3.2 Barriers to uptake

The experiment, in conjunction with the seminar on *Improving Coastal Livelihoods:* Lessons Learned from Experience and Priorities for Future Research highlighted the existence of significant obstacles to the uptake of the messages that Experiment 4 intended to disseminate, including:

- the competition that exists among researchers and institutions, and the lack of collaboration among actors involved in research;
- the absence, or the inadequate use, of established and effective mechanisms to share information on research initiatives and results at the regional level;
- the unavailability of adequate expertise and skills in the disciplines relevant to this research agenda;
- the unavailability and inadequate management of research data and results, often leading to the repetition of work and to insufficient dissemination of knowledge;
- the nature of funding and contracting procedures, compromising the independence and flexibility of research efforts, especially in the area of poverty assessments and poverty studies;
- the negative impacts of political and bureaucratic interference in the conduct of research and in the formulation and dissemination of results;
- the frequent disconnectedness between the needs of intended "beneficiaries" on the one hand and the actual content and process of research on the other, and the insufficient involvement of civil society and private sector actors in defining priorities and implementing research activities;
- the dearth of policy research at both the regional and national levels;
- the increased use by many institutions of positive concepts (e.g. participation, equity, sustainability) to mask inadequate and potentially dangerous intentions, processes and interventions;
- the prevailing perception, especially among civil society and governmental agencies, that "coastal management" is concerned with natural resources and processes, not with livelihood and development issues;
- the absence of meaningful development partnerships between governmental agencies, civil society and the private sector;
- the difficulties being encountered by civil society organisations to sustain and finance their work, resulting in their inability to become involved in long-term research and policy processes;
- the continued biases of most research institutions and activities, even when interdisciplinarity and integration are ostensibly professed, and the absence of effective mechanisms to cut across disciplines and issues:
- the existence of many obstacles (local capacity, policies and practices of research and management agencies, inadequacy of communication initiatives) that prevent the poor and the powerless from accessing data and influencing research processes and outcomes.

#### 2.4.3.3 Towards a research agenda

The main conclusion of this experiment is that there remains a critical need to promote a research agenda that links coastal management, sustainable livelihoods and poverty reduction in the Caribbean region, but this promotion requires a long-term effort and significant resources in order to be effective. The experiment, in conjunction with the presentations made to the seminar on "Improving Coastal Livelihoods: Lessons Learned from Experience and Priorities for Future Research" and the debates that took place in the various technical sessions allowed for the

identification of a number of key themes that should provide an additional focus for, and help guide the design of, future research.

A full report of Experiment 4, including experiment products, is appended at Annex F.

## 3 COMMUNICATION STRATEGY

#### 3.1 Overview

As indicated in 1.2 above, the development of a communication strategy was considered from the outset to be a key project output. *Coastal Management to Improve Livelihoods: A regional communication strategy for policy and institutional change* which draws on the experiment findings, is intended to provide guidance to other research and advocacy institutions in the Caribbean region, as well as to governmental and civil society organisations involved in promoting changes in policy and practice towards integrated and equitable coastal management and development.

The strategy consists of:

- A set of messages and tools derived from research on coastal area management and livelihoods in the Caribbean, which can be packaged into communication products and materials;
- A "toolbox" of existing communication products and materials based on those messages and tools;
- Guidance on:
  - identifying, assessing the communication needs of, and reaching key target audiences,
  - o optimising the impact of communication products on attitudes, behaviours, practices, institutional arrangements and policy,
  - measuring the effectiveness of the strategy's activities;
- Suggestions on a regional partnership for implementation.

## 3.2 Optimising uptake

Key findings on optimising uptake, which are highlighted in the strategy document, include the importance of:

- starting with a strategy which identifies:
  - What kinds of changes in attitudes, behaviours, practices and policies are desired?
  - What are the main factors that influence change in the target audience, either negatively or positively?
  - What are the messages or tools that can result in or support those changes?
  - Who exactly needs to receive products containing these messages and tools?
  - o Why do they need them and what are they expected to do with them?

- considering products and pathways in tandem.
- **reinforcing messages in various formats** which may include a mix of intensive and relatively costly approaches such as presentations, meetings and workshops, reinforced by a range of less effective methods, including use of electronic mail, Internet, and popular media.
- considering the messenger as well as the message: people's understanding and acceptance of information is filtered through their attitudes towards and relationships with the source of that information. It is therefore necessary to consider and understand the underlying dynamics of message delivery, which are affected by such factors as the professional, class, gender, political and other social relations between the messenger and the target audience. Understanding the power relations between the messenger and the receiver and the messenger's stake in the outcome can also be important, particularly when the messenger has been selected as an 'intermediary' or 'opinion leader' within the target audience.
- Seeing communication and uptake as a dynamic two-way process: generally, products and pathways that bring people together, draw on their own perceptions and experiences, and provide space for discussion, and even heated debates, are most likely to result in changes in attitudes and increased understanding of issues. Process and experience products such as seminars, field trips, study tours or exchange visits, and guided discussions are particularly useful for:
  - bringing people with different ideas and perspectives together and overcoming language and cultural barriers;
  - o creating a shared understanding, or common ground, among stakeholders;
  - o contributing to the general level of knowledge on the subject;
  - o engaging those audiences who are unlikely to be reached by products such as written and video materials, e-mail discussion groups, or the Internet.

The full communication strategy is appended at Annex B.

## 4 PROJECT SUMMARY AND CONCLUSIONS

The multi-experiment research approach adopted for R8317 "Institutional arrangements for Coastal Management in the Caribbean" was designed to achieve two key objectives, both of which have been substantially met:

- to contribute to improved understanding by a wide range of stakeholders of the processes and institutions required to achieve integrated and equitable natural resource management in the coastal zone in the insular Caribbean.
- to identify the products and pathways which contribute most effectively and efficiently to uptake by a wide range of target audiences of key messages related to integrated and equitable natural resource.

The project produced a number of outputs, of which the following are the most significant:

- A Tool Box of products<sup>2</sup> including:
  - The original Suite 1 products

<sup>2</sup> New (i.e. non-Suite 1) products are appended at Appendix III and are also included in electronic version on the FTR CD under Annex H toolbox.

- Four Policy Briefs
- o Poster
- Case study (slide presentation and posters)
- PowerPoint presentations
- MPA Training Module
- Academic teaching materials (slide presentation, lecture notes and adapted case studies)
- o MPA Webpage
- Final reports of the four experiments
- A Communication Strategy entitled Coastal Management to Improve Livelihoods: A regional communication strategy for policy and institutional change
- A draft Research Agenda for future work on integrated and equitable natural resource management in the coastal zone in the insular Caribbean.

In spite of the complexity of the project design, only a few of the activities outlined in the inception experiment communication plans could not be completed within the project timeframe and budget. However, in all cases target audience interest was established and it is hoped that further funding can be found to complete the activities as outlined in 5.1 below..

## 5 PROJECT FOLLOW UP

#### 5.1 Completion of R8317 activities from Experiments 1-4:

- Breakfast meeting with government ministers in Trinidad with significant responsibility for coastal zone management;
- Presentation to representatives of the oil and gas industry in Trinidad;
- Completion and dissemination of the Negril case study, particularly to audiences in Jamaica, but also at regional and international activities;
- Translation of MPA policy brief into Spanish and creation of a Spanish portal for the webpage;
- Incorporation of the MPA training module into UNEP's Training of Trainers course;
- Identification of other outlets for the MPA training module and Negril case study that are targeted at non-professional and mixed groups of MPA management stakeholders:
- Production of a self-contained teaching DVD, incorporating various resources on comanagement such as the Mankòtè Mangrove case studies, co-management guidelines, slide show and other relevant materials.

# 5.2 <u>Implementation of recommendations contained in Communication Strategy and Research Agenda</u>

The project has clearly concluded that there remains a critical need to promote and implement a research agenda that links coastal management, sustainable livelihoods

and poverty reduction in the Caribbean region and it is clear that this promotion requires a long-term effort and significant resources in order to be effective.

Additionally, the communication strategy has identified the potential roles that a range of coastal zone actors can play in promoting and implementing policies and institutions that support equitable and integrated natural resource management in the coastal zone. It is therefore recommended that the next step be to call a regional meeting of actual and potential partners to discuss the findings of R8317, to agree on research and communication priorities, and to develop a funding proposal and workplan for this new round of research and advocacy.

#### APPENDIX I: INCEPTION WORKSHOP REPORT

#### **Caribbean Natural Resources Institute**

## Institutional Arrangements for Coastal Management in the Caribbean

## **Presentation of a Research and Communications Project**

#### November 2003

#### Introduction

This report describes the main elements of a research project entitled *Institutional Arrangements for Coastal Management in the Caribbean*<sup>3</sup>. The logical framework for this project is presented at Appendix . This project is funded by the UK Department for International Development (DFID) as part of the Land-Water Interface (LWI) component of its Natural Resources Systems Programme (NRSP). It is being implemented by the Caribbean Natural Resources Institute (CANARI), in collaboration with the Caribbean Conservation Association (CCA) and the Marine Resources Assessment Group (MRAG).

The purpose of this report is to summarise and present the conclusions reached at a workshop held in San Juan, Puerto Rico on 7 and 8 November 2003. The overall objective of the workshop was to develop the tools, methods and work plans for the implementation of this project. The workshop's agenda is presented at Appendix . A list of workshop participants and their contact information is provided in Appendix . The workshop was organised jointly by CANARI and the Sea Grant College Program at the University of Puerto Rico.

### Purpose and objectives of the project

The workshop confirmed the goal, purpose and objectives as defined in the various project documents, but also concluded that the project's overall purpose could be usefully reworded as: to change policies and practice in order to effectively implement integrated and equitable natural resource management in the coastal zone.

The workshop further confirmed that the project should have three main complementary sets of activities:

- the formulation of lessons, methods and tools applicable to pro-poor policies and institutional arrangements;
- the dissemination of these lessons, methods and tools to relevant audiences:

<sup>&</sup>lt;sup>3</sup> The project's official title is *Pro-poor policies and institutional arrangements for coastal management* and its DFID reference number is R8317. On the basis of recommendations made at the workshop held in November 2003 in Puerto Rico, it has been decided that the project should now be known as *Institutional Arrangements for Coastal Management in the Caribbean*.

the identification of the strategies and pathways that can best ensure that these lessons, methods and tools are communicated effectively.

#### Conceptual issues

The workshop examined a number of conceptual issues, and concluded that:

- the concept of *coastal zone* has varied interpretations, especially in a small island context, where the entire island territory could be defined as coastal. The concept remains useful nevertheless, as it captures the specificity of development and management issues and of livelihood strategies at the interface between terrestrial and marine systems;
- poverty is the most critical development issue in the region, and it should remain at the centre of this project's research agenda. The scope of the project should however be broader than poverty, and should encompass issues of sustainability and equity, within the framework of a human development agenda. For this reason, the terms "integrated and equitable" is generally preferred to the term "pro-poor" when referring to the project's research agenda, and to the policies and institutional arrangements that are being studied and promoted;
- for the purpose of this project, poverty is defined in economic, social and cultural terms, as "a situation where individuals, households and communities do not have:
  - o spending power to meet basic needs;
  - access to basic social services, notably water, sanitation, health and education;
  - natural, financial and physical assets, including physical belongings, access to land, savings, tools and equipment, and other means of production;
  - security and safety, including protection from economic shock, natural disasters and human sources of impact, e.g. pollution, or industrial and transportation accidents;
  - self-esteem and cultural identity;
  - autonomy, capacity of choice and opportunities to participate in development processes";
- the "boundary" between MPAs and "non-MPAs" may be artificial, and the case studies developed as part of Suite 1 projects indicate that the distinction between these two management regimes is not reflected in practice. Instead, experience suggests that management regimes can be placed along a continuum, where areas with a single protection objective would be placed at one end of the continuum, while multiple-use and multiple-function areas would appear at the other end.

## Background: the "capital" for project design

The workshop confirmed that the project would use, and build upon, the results, products and documents of completed research projects funded by NRSP and collectively referred to as *Suite 1*, namely:

- building consensus among stakeholders (University of East Anglia, reference: R7348);
- institutional and technical options for improving coastal livelihoods (CANARI, reference: R7559);
- ➤ institutional arrangements for Caribbean Marine Protected Areas and opportunities for pro-poor management (MRAG, reference: R7976); and
- requirements for developing successful co-management (CCA, reference: R8134).

The workshop also concluded that the results, products and documents of several other past and on-going research projects should be incorporated into this process, and notably:

- the preparation and dissemination of Socioeconomic Monitoring Guidelines for Coastal Managers in the Caribbean (Global Coral Reef Monitoring Network, University of the West Indies, U.S. National Oceanic and Atmospheric Administration, and World Commission on Protected Areas);
- other on-going research and outreach initiatives of the Centre for Resource Management and Environmental Studies (CERMES) of the University of the West Indies (UWI);
- various on-going research initiatives and management processes involving coastal protected areas and coastal zone management institutions in Puerto Rico (Sea Grant College Program and other organisations in Puerto Rico);
- the preparation and dissemination of guidelines on conflict management, participatory planning and stakeholder analysis (CANARI);
- the preparation and delivery, by the Caribbean Conservation Association, of a training module on participatory planning for protected areas (Caribbean Regional Environment Programme – CREP);
- work carried out by the FAO in fisheries policy and fisheries management, including case studies on policy formulation and subsidies in the fisheries sector.

The workshop noted the bibliography of documents and other materials produced by Suite 1 projects and agreed to include other selected materials in the list of materials available to this new project. The revised bibliography is provided in Appendix E.

In its analysis of these documents, the workshop noted that the documentation of Suite 1 projects covered four related themes:

- participatory planning,
- marine protected areas (MPAs),
- co-management, and
- coastal resource management and development outside of MPAs.

It concluded that the documentation of lessons, methods and tools falling under the first three themes (participatory planning, MPAs and co-management) is quite extensive, relying on a substantial body of literature and experience, while the documentation of the fourth theme is limited primarily to the case study developed by R7559. A table used at the workshop to summarise these outputs and documents is provided at Appendix .

## Outputs from the workshop

The workshop delivered a number of outputs, as presented and discussed in Table 1 below.

**Table 1: Summary of workshop outputs** 

Expected output	
(as stated in pre- workshop documentation)	Workshop outputs and discussion
Develop a sketch/outline of a "tool box"	The workshop agreed that the compilation of results into a single "tool box" was neither practical nor desirable. The workshop concluded instead that a range of communication media and pathways should be used, in this project, for the purpose of testing and documenting approaches to and methods for uptake promotion. The workshop identified the main results from Suite 1 projects, and agreed on a process for the analysis and compilation of these results.
Design a communications strategy	The workshop:  concluded that the primary purpose of this project should be to test and document approaches to and methods for uptake promotion, and that the purpose of validating results of Suite 1 projects should become secondary, because of the short time frame available for project implementation;  agreed on all the main components of a communications framework (see Table 2 and Table 4), as the basis for the formulation of a comprehensive Communications Strategy.
Develop work plans and budgets for individual field testing and validation projects	The project identified four field testing projects (also called experiments) and agreed on key considerations to be taken into account in the design of these projects. The workshop however concluded that, in the absence of a detailed analysis of the results of the various Suite 1 projects, it was not yet possible to develop specific work plans and budgets. Priority should therefore be given, immediately after the workshop, to the analysis and compilation of the results of Suite 1 projects, and to the subsequent design of these four field projects.
Design a monitoring and evaluation framework	The meeting made a number of observations and conclusions that will be used in the design of monitoring and evaluation procedures, within the communications strategy and within the individual field testing projects.

Expected output (as stated in pre-	Workshop outputs and discussion
workshop	
documentation)	
Develop a work plan	The meeting agreed that: (a) the uptake of the results and
for the complementary	products of project R7348 should be evaluated, and (b) there is
dissemination of Suite	a need to support the dissemination of other Suite 1
1 documents	documents, while monitoring and assessing their uptake.
Strengthen	The workshop served to strengthen collaboration among the
collaboration among	agencies in the design and implementation of this project, but
research agencies	also provided an opportunity for several of these agencies to
	discuss potential collaboration in other projects and activities,
	and to exchange information on past and current programmes

#### Communications framework

The workshop agreed that the communications framework that will be used in this project should be tailored to its specific needs and objectives. In particular, the workshop concluded that the project should aim at disseminating, and at testing the dissemination of, the results of Suite 1 projects. In other words, this project should not: (a) attempt to produce new results, nor (b) be concerned with the dissemination of results that do not originate from Suite 1 projects. The results from Suite 1 projects should therefore constitute the basis for the development of the communications strategy.

The workshop conducted a brief review of the main results of Suite 1 projects, with the understanding that these results would provide the basis for the formulation of the messages that will be communicated, and tested, through this project. The workshop concluded that these results could and should be grouped under three main categories, namely:

- 1. Public policy messages, particularly with respect to:
  - importance of and rationale for coastal zone management (i.e. need for policies, institutional arrangements and management tools that achieve the goal of integrated and equitable coastal development);
  - links between coastal resource management, governance, poverty reduction and livelihoods, emphasising the relevance of integrated and equitable coastal development to a human development and poverty reduction agenda;
  - institutional arrangements and organisational requirements for integrated and equitable coastal zone management and development.
- 2. Management tools, notably:
  - methods for participatory planning and decision-making, including methods for stakeholder analysis;

- approaches to and methods for the design of participatory institutions (e.g. fisheries legislation for co-management);
- > instruments and methods for information management.
- 3. Priorities and opportunities for further research in integrated and equitable coastal zone management and development, including the testing and validation of the results of Suite 1 projects.

The workshop also noted that the results and the documentation from Suite 1 projects include new knowledge (e.g. identification and analysis of issues, policy requirements and institutional arrangements, methods and tools), as well as validations and concrete illustrations of previous knowledge (especially with a number of well-documented case studies).

In the development of the communications framework, the workshop examined the main targets that should benefit from communications activities and resulting uptake, as summarised in Table 2.

**Table 2: Main communication targets** 

Sector	Main targets (in public sector, civil society and private sector)
Public policy	Senior national public officials Selected international and regional agencies (to be specified) Consultants Resource users and their organisations Advocacy NGOs
Development planning	Consultants Public sector planners Development Finance Institutions NGOs and development agencies
Integrated coastal resource management	Resource management agencies (broad, within and outside coastal zone) Marine protected area management agencies
Education, training and capacity building	Universities NGOs (International, regional, national and local) involved in training and capacity-building (to be specified)
Research	Funders of research Regional research agencies

The workshop agreed that the characteristics of these main target groups should be analysed, in terms of their current awareness of issues and approaches, receptivity to various communication pathways, and ability to effect change in policy and practice. These characteristics should assist the development of the communications strategy, by providing useful information on the effectiveness and relevance of various communication pathways.

The workshop also reviewed the various communications pathways available, and conducted a brief analysis of the impacts and usefulness of these pathways in various situations and under various conditions.

It was agreed that communication that results in changed behaviour is of three general types: demonstration, examples, and arguments. The matrix presented in Table 3 indicates uptake pathways that have proven effective in changing behaviours related to natural resource management in the Caribbean. They are ordered along a dissemination scale ranging from the narrowest focus (one-on-one meetings) to the widest (Internet).

Table 3: Matrix of potential uptake pathways

	Demonstration (how to do)	Examples (what's been done)	Arguments (why do it)
One-on-one meetings			X
Field visits	X	X	
Staff exchanges	X	X	
Small group meetings			X
Training workshops	X	X	X
Cultural media			X
Seminars/conferences	X	X	X
Exhibitions	X	X	X
Written case studies		X	X
Guidelines documents	X	X	
Visual presentations (incl public access TV)	X	X	X
Radio shows		X	X
Press coverage			X
Books/scholarly papers		X	X
Brochures		X	X
Policy briefs		X	X
Educational materials	X	X	
Internet	X	X	X

Different approaches are required depending on what works for the intended target audiences. It was noted that messages should be delivered using multiple pathways, in order to test various approaches and to reach the target audience from different directions, thereby assuring delivery and reinforcing the message.

On the basis of these various elements, the workshop developed a preliminary communications framework that needs to be completed with: (a) the actual design of the experiments, (b) the identification of the pathways to be used in each experiment, and (c) the selection of adequate indicators of uptake.

Table 4: Preliminary communications framework

Public policy messages, Public policy messages, particularly with respect to: particularly with respect to: communication have an impa communication have an	All potential targets of communication have an impact on policy. For the purpose of		of experiment
<u>a</u> <u>E</u>	argets of no have an impact the purpose of		
ā <u>t</u> a	the primose of		The dissemination of these
of and stal zone en coastal ement, n and	בים שכניוות שכני		public policy messages can
stal zone en coastal ement, n and	io pood ind oil		best be tested through a range
en coastal ement, n and	this project, activities will focus		of activities in one country. This
en coastal ement, n and tech			country should be one where:
ement, techr			the policy environment
n and	senior political and	acceptance of need for	with respect to coastal
	fficials	policy change	management requires
v institutional		actual change in policy	significant change;
		wareness of need, and	it will be possible to
requirements for integrated 🔻 public	public opinion	demand, for policy change	assess changes in public
and equitable coastal zone			opinion within specific
management and			localities and communities.
development			
Management tools, such as: The main potential users of	ential users of		This component should consist
	these management tools are:		of two experiments, using a
participatory planning and 🔻 organis	organisations and		range of pathways:
decision-making individuals involved in	involved in	awareness of the tools	one experiment to
▼ approaches to and coastal resource	onrce	actual use of the tools	disseminate a set of tools to
methods for institutional management	ent	awareness of the tools	a community of managers;
A	advocates of the use of	ability to assess the use	one experiment to
	these management tools	of the tools by managers	disseminate a selected tool
methods for information 🔻 organis	organisations and	awareness of the tools	or set of tools to one
management individuals	individuals that provide	✓ use of the tools in	selected training
training to managers	managers	teaching	organisation and its faculty.

Result and message to be disseminated	Targets	Communications objective	Considerations for the design of experiment
Priorities for research in	Research organisations and	▶ awareness of this	This component of the project
integrated and equitable	researchers	research agenda (all	should consist of a regional
coastal zone management and	Agencies that provide financial	targets)	initiative aimed at promoting
development	support to research		the research agenda.
	Organisations and individuals	in research activities	
	involved in coastal resource	(research organisations and	
	management and development	researchers)	
		willingness to fund	
		research (funding agencies)	
		provision of support to	
		research (funding agencies)	
		✓ demand for research	
		(managers)	

With respect to monitoring and evaluation, the workshop provided an outline framework that consists of:

- a. the establishment of baselines regarding current management practices and policies and of their effectiveness;
  b. the identification of indicators of uptake (internalisation of messages) and of changes in practice or policy;
  c. a reassessment of management effectiveness following uptake and change.

## Project activities

This framework suggests that the project should consist of the following activities:

- 1. Four experiments, to be implemented over a twelve months period beginning in January 2004:
  - a. one national project aimed at disseminating, and testing the methods of dissemination of, the main policy messages developed by Suite 1 projects;
  - one regional project aimed at disseminating, and testing the method of dissemination of, the main management tools developed by Suite 1 projects. The target of this activity should be a selected set of coastal resource managers (most likely MPA managers);
  - one project aimed at disseminating, and testing the method of dissemination of, a selected management tool to one training organisation and its faculty;
  - d. one project aimed at promoting, and testing the extent of adoption of, a research agenda that incorporate the needs and opportunities identified in Suite 1 projects.
- 2. An assessment of uptake of the results of R7348<sup>4</sup>.
- 3. The dissemination of the guidelines on co-management (R8134) and MPA management (R7976), and the monitoring and assessment of their uptake.

#### Next steps

In order to complete this project planning process, the following steps are now required:

1. Preparation of this presentation note and completion of the communications strategy.

Action: Facilitator to draft presentation note, all workshop participants to provide comments, CANARI to finalise and Communications Specialists to develop into a communications strategy.

2. Analysis, synthesis and "packaging" of the policy lessons, tools and research priorities emerging from past Suite 1 projects.

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<sup>&</sup>lt;sup>4</sup> In subsequent discussions between the various agencies involved, it has been agreed that the assessment of uptake of the results of R7348 as well as the dissemination of the guidelines on co-management (R8134) and MPA management (R7976), and the monitoring and assessment of their uptake should be carried out under the auspices of the Caribbean Focus Group, and should therefore not be directly part of this project.

Action: Leaders of Suite 1 projects to produce messages from individual projects. On this basis, CANARI to lead analysis and synthesis, with inputs from collaborating agencies and other workshop participants.

3. Design of four experiments, including selection of targets and sites.

Action: CANARI to lead, in collaboration with CCA, MRAG and UPR.

# Appendix A: Logical framework

Narrative summary Goal	Objectively verifiable indicators	Means of verification	Important assumptions
NRSP-LW output 1: Improved resource-use strategies in coastal zone production systems developed and promoted	By 2003, new approaches to integrated natural resource management, including prevention of pollution, which explicitly benefit the poor validated in two target areas     By 2005, these new approaches incorporated into strategies for the management of coastal resources and adopted by target institutions in one target region	Reviews by Programme Manager Reports of research team and collaborating /target institutions Appropriate dissemination products Local national and international statistical data Data collected and collated by the Programme Manager	Enabling environment exists  Budgets and programmes of target institutions are sufficient and well managed
Purpose	one tall get region		
Institutional arrangements and policies for implementation of integrated pro-poor natural resource (and pollution prevention) management in coastal zones developed and promoted	By 2005, informed policies, structures, strategies or methods incorporated in the programmes of management institutions in at least five countries of the region, reflecting increased emphasis on the promotion of sustainable socioeconomic benefits of coastal resources, especially for the poor	Electronic and print media reporting on environmental issues  Project monitoring and evaluation reports  National economic and social statistics	
	By 2005, decision support tools for livelihood sensitive (pro-poor) integrated coastal management applied by management agencies in at least five locations, and used as teaching materials by at least three regional institutions	Reports of collaborating target institutions  End of project survey of a representative sample of target institutions	

Outputs			
1. Decision support tools for livelihood sensitive (pro-poor) integrated coastal management arising from projects in NRSP/LWI Suite 1 defined, refined and designed	Tool box synthesising cross-cutting lessons and tools developed in NRSP/LWI projects Suite 1  Involvement of collaborating organisations and key target institutions in development of tool box  Observation sites	Printed, electronic and audio-visual products presenting decision-support tools (some developed by month 6, others by end of project)  Report of project workshop (month 3)	Validity and replicability of results obtained and products prepared in projects in NRSP/LWI Suite 1
	established at key locations of Suite 1 projects	Quarterly project reports	
	Established system to monitor and evaluate field testing projects and observation sites, and feed outcomes into improved decision support tools	Communications strategy	
2. Communications strategy and specific mechanisms for promotion of decision support tools and other products defined and implemented	Demand for uptake products and tools confirmed by at least 15 management agencies (via their involvement in developing or endorsing the communications strategy)	Endorsements of communications strategy by target institutions  Electronic and print	
Implemented	by month 6	media reports on environmental issues	
	At least five media types developed and promoted for awareness raising of the combined products by end of project	Work plans and progress reports of target institutions	
	At least 15 institutions reached by awareness raising by end of project	Project quarterly reports	
	Uptake products adopted by at least ten target institutions by end of project		

3. Communications	Five <sup>5</sup> field testing projects	Project mid-term	Needs of target
strategy, promotion mechanisms and	established by month 6 to	review	institutions are consistent with
support tools tested	test and validate (a) improved institutional	Work plans for field	Suite 1
and validated	arrangements and decision	testing and validation	research
and randated	support tools for livelihood		outputs
	sensitive (pro-poor)	But at a station	
	integrated coastal	Project newsletter	
	management (including co-		
	management) for MPAs	Professional	
	and non-MPA contexts, and	publications and	
	(b) strategies and mechanisms for uptake	journals	
	promotion		
	r		
		Monitoring and	
	Monitoring and evaluation	evaluation systems and programmes of	
	framework developed for	target institutions	
	and applied in all five field	target montanerie	
	testing projects as well as in the observation sites		
	in the observation sites	Project quarterly	
		reports	
	Monitoring systems		
	incorporated into five target		
	institutions that effectively		
	monitor their own improved		
	CZM programmes by end of project		
	or project		
	Results of field testing		
	projects and observation		
	sites incorporated in		
	revised tool box and in		
	recommended follow-up communications strategy by		
	end of project		

<sup>&</sup>lt;sup>5</sup> The approved logical framework for the project assumed that there would be five testing projects. The workshop held in November 2003 concluded that only four such projects would be required.

Activities	Milestones	Important assumptions	
Output 1. Decision support tools for livelihood			
arising from projects in NRSP/LWI Suite 1 defined, refined and designed			
1.1 Develop framework for the analysis and compilation of the products previously	Framework (end of month 2) MS 1.a	All products from Suite 1 projects are available by	
developed by each of R7408, R7559, R7976	111011(11 2) WIS 1.a	the start of the project	
and R8134 (months 1-2)		and start or the project	
1.2 Convene project workshop to develop	Report and other		
work plans, communications strategy and	outputs from workshop		
tool box (month 3)	(end of month 3) MS 1.b		
1.3 Provide limited support to the dissemination and promotion of the products		Workplans for the uptake of specific products from	
previously developed by each of R7408,		R7559, R7976 and	
R7559, R7976 and R8134 (months 1-16)		R8134 in place by project	
,		inception	
1.4 Observe institutional change and	Reports from	Institutions in observation	
decision-making processes at selected observation sites in order to extract lessons	observation sites presented at final	sites remain interested in collaborating and	
on change processes and effective	project workshop.	contributing to monitoring	
institutional arrangements (sites of projects	MS1.c	and analysis	
R7408, R7559 and R8134) (months 1-15)		•	
1.5 Identify and prepare new set of products	"Tool box" prepared by		
(institutional arrangements and decision support tools) using results and products of	month 6. MS 1.d		
R7408, R7559, R7976 and R8134 (months 3			
-6)			
1.6 Use findings from field testing projects	Final set of products		
and observation sites to inform revisions of	prepared by month 16		
institutional arrangements and decision support tools (months 5 - 16)	MS 1.e		
1.7 Convene final workshop to prepare	Workshop report MS		
revised products (month 17)	1.f		
·	Final report MS 1.g		
	Final set of products		
	(all by month 16) MS 1.e		
Output 2. Communications strategy and specif		ion of decision support	
tools and other products defined and implemented			
2.1 Develop a communications and uptake	Communications and	Communications review	
promotion strategy for detailed and targeted activities following completion of activity 1.2	uptake promotion strategy developed by	network effectively develops and improves	
(month 3)	month 4. MS 2.a	the communications and	
(		uptake promotion	
		strategy	
2.2 Develop monitoring and evaluation	Monitoring and		
framework to assess the effectiveness of uptake promotion and testing and validation	evaluation framework MS 2.b		
(month 4)	IVIO 2.0		
,			
2.3 Apply monitoring and evaluation	Reports on monitoring		
framework to the implementation of the	and evaluation, as part		
communications and uptake promotion	of quarterly project reports MS 2.c		
strategy (months 5 – 16)	Tehous Mo 5.0	ı	

Activities	Milestones	Important assumptions	
2.4 Use findings from field testing projects	Revised	·	
and observation sites to update the	communications and		
communications and uptake promotion	uptake promotion		
strategy (months 17 - 17)	strategy by end of		
	project MS 2.d		
2.5 Promote shared lessons for uptake in	Submissions made for	CFG functions effectively,	
conjunction with the Caribbean Focus Group	inclusion in CFG work	and provides mechanism	
(CFG) (months 6, 12 and 18)	plan at months 6, 12	for dissemination of	
	and 18 MS 2.f	lessons and products	
	Output 3. Communications strategy, promotion mechanisms and support tools tested and validated		
3.1 Identify and confirm criteria for selection,	Selection finalised and		
locations, issues and potential institutional	included in report on		
partners for field testing and validation	project workshop MS		
(months 1-3)	3.a		
3.2 Develop work plans for field testing in five	Work plans developed		
locations (month 3)	and contained in report		
	on project workshop		
	MS 3.b		
3.3 Conduct and document results of field	Monitoring and		
testing projects (months 4 - 17)	evaluation reports on		
	individual field testing		
	projects, and other field		
	testing project		
2 4 Desires and involunt manufacture and	documents MS 3.c		
3.4 Design and implement monitoring and	Monitoring and		
evaluation systems and frameworks within all	evaluation reports on individual field testing		
five locations/projects (months 4 - 17)			
3.5 Develop revised communications strategy	projects MS 3.d Revised		
(months 16 - 17)	communications and		
(monus 10 - 17)	uptake promotion		
	strategy prepared and		
	made available to		
	relevant regional and		
	national organisations		
	by end of project MS		
	3.e		
		Pre-condition	
		Suite 1 projects are all	
		completed on schedule	
		with products suitable for	
		uptake promotion, and	
		testing and validation	

## Appendix B: Workshop agenda, 7 and 8 November 2003

- 1. Introduction: who is here and why are we here?
  - a. Introduction of participants
  - b. Presentation of the purpose, expected outputs and intended beneficiaries of the project and discussion (CANARI to present)
  - c. Formulation of agreement on expected results from workshop
  - d. Confirmation of agenda
- 2. Concepts and boundaries: "Pro-poor policies and institutional arrangements for coastal management", what does that mean to us? are all the main concepts and definitions clear?
- 3. The capital: what are the outputs and documents that we can use?
  - a. overview and preliminary stock-taking (Yves Renard)
  - b. presentation of outputs of R7348
  - c. presentation of outputs of R7559 (Yves Renard)
  - d. presentation of outputs of R7976 (Robert Wakeford)
  - e. presentation of outputs of R8134 (Patrick McConney)
  - f. more resources, Sea Grant College Program (Manuel Valdés-Pizzini)
  - g. more resources, University of the West Indies, including Socio-economic Monitoring Guidelines for Coastal Managers in the Caribbean (Patrick McConney)
  - h. more resources, CANARI, including Guidelines for Conflict Management, Participatory Planning and Stakeholder Analysis (Vijay Krishnarayan)
  - i. more outputs and resources, others
- 4. Analysis of the products of the Suite 1 projects, presentation and discussion:
- 5. Presenting, packaging and communicating the products:
  - a. agreement on a framework (objectives, products and pathways)
  - b. who are the targets and potential users?
  - c. what is the demand for the products identified in item 4?
  - d. what should be the form in which these products should be disseminated? is the "tool box" idea valid?
  - e. agreement on process to develop the products
- 6. Testing communication and dissemination, and learning how to disseminate:
  - a. confirmation of the approach: testing and validating the products in the field, implementing a communications strategy within field projects and regionally, and monitoring and assessing the impact of the communications strategy
  - b. confirmation of the selection of field-testing activities
  - c. design of the communications strategy
  - d. formulation of monitoring and evaluation framework
- 7. Agreement on project implementation
- 8. Opportunities for collaboration beyond the scope of this project

#### Appendix C: List of participants

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Appendix D: Overview of outputs and documents, Suite 1 projects

IMPROVED RESOU	RESOURCE USE STRATEGIES I	RCE USE STRATEGIES IN COASTAL ZONE PRODUCTION SYSTEMS	N SYSTEMS
Participatory planning	Marine Protected Areas	Co-Management	Pro-poor CZM outside MPAs
Used and tested by all Suite 1	Fields in which there is now exte	Fields in which there is now extensive experience, Suite projects	New field, little experience,
projects, adding to already	have taken stock of that expe	have taken stock of that experience, and have distilled it into	more questions than
extensive experience, no	guidelines. In addition, Suit	guidelines. In addition, Suite 1 projects have developed a	answers, some observations
systematic documentation	number of	number of case studies	and one local case study
R7348 work on trade-off	Review of regional status and	Review of regional experience,	A field experiment by R7559
analysis	experience by R7976	and a literature review by	
Documentation by all projects	Analysis of lessons of that	R8134	
of methods for stakeholder	experience by R7976	Analysis of that experience by	
analysis	Analysis of case studies by	R8134	
Documentation of participatory	R7976	Analysis of case studies by	
planning from experience,		R8134	
particularly case studies in		Observations on co-	
R7976 and R8134		management by R7559 and	
Integration of methods		R7976	
available from the global			
literature into Caribbean			
guidelines			
Field testing by R7559			
R7348 publications	R7976 guidelines	R8134 guidelines	R7559 report and documented
R7976 guidelines	Documented case studies	R7976 guidelines (co-	case study
R8134 guidelines		management of MPAs)	
R7559 report		Documented case studies, all	
R7559 video		projects	
Documented case studies, all			
projects			
Most of the documentation fro	m Suite 1 projects, and most of th	Most of the documentation from Suite 1 projects, and most of the broader CZM literature, do not address livelihood and poverty	address livelihood and poverty
issues, and deal with partici	pation and co-management as end	ssues, and deal with participation and co-management as ends in themselves, as means of conservation effectiveness, not as	nservation effectiveness, not as
	means of integrated an	means of integrated and equitable management.	
Consequently, the	nere are few linkages between the	Consequently, there are few linkages between these four themes in Suite 1 products and documents	s and documents

### **Appendix E: References**

### R7408: building consensus among stakeholders

### Main documents<sup>6</sup>

Brown, K., E.L. Tompkins and W.N. Adger. 2002. Making waves: integrating coastal conservation and development. Earthscan Publications Ltd., London, U.K. 164 pp.

Brown, K., E. Tompkins and W. N. Adger. 2001. Trade-off analysis for participatory coastal zone decision-making. Overseas Development Group, United Kingdom. 109 pp.

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Tompkins, E., W. N. Adger and K. Brown. 2002. Institutional networks for inclusive coastal management in Trinidad and Tobago. Environment and Planning A (2002)34: 1095-1111.

### R7559: institutional and technical options for improving coastal livelihoods

### Final Technical Report

CANARI. 2003. Improving coastal livelihoods in the Caribbean, institutional and technical options, NRSP project R7559, Final Technical Report. 25pp.

### Main document

CANARI. 2003. The Sea is our Garden: a report on a study of institutional and technical options for improving coastal livelihoods in Laborie, Saint Lucia. CANARI Technical Report No. 322. 146 pp.

### Selected publications

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<sup>&</sup>lt;sup>6</sup> This category of "Main documents" aims at identifying the publications in which the main project findings and conclusions have been analysed and presented.

Burt, M. 2002. A study of the social and economic impacts of sea urchin harvesting in 2002 in Laborie, St. Lucia. CANARI LWI Project Document no. 7. CANARI Technical Report no. 318. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 7 pp.

Buttler, C. 2002. Assessing marine resources: institutions and institutional development in Laborie, St. Lucia. CANARI LWI Project Document no. 6. CANARI Technical Report no. 305. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 56 pp.

Clauzel, S. and Joyeux, G.. 2001. Tourism in Laborie, St. Lucia: baseline study and identification of potential for development. CANARI LWI Project Document no. 3. CANARI Technical Report no. 293. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 15 pp.

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Renard, Y. 2005. The Sea is Our Garden: Coastal resource management and local governance in the Caribbean. pp 152-179. *in*: Bass, S., H. Reid, D. Satterthwaite and P. Steele. Reducing poverty and sustaining the environment, the politics of local engagement. Earthscan, London.

Smith, A.H. and Gustave, J. 2001. A description of the harvest of wild seamoss in Laborie, St. Lucia. CANARI LWI Project Document no. 2. CANARI Technical Report no. 292. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 4 pp.

Smith, A.H. and Koester, S. 2001. A description of the sea urchin fishery in Laborie, St. Lucia. CANARI LWI Project Document no. 4. CANARI Technical Report no. 294. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 8 pp.

Smith, A.H.. 2003. Mapping Laborie Bay, Saint Lucia.. CANARI LWI Project Document no. 8. CANARI Technical Report no. 323. Vieux Fort, Saint Lucia: Caribbean Natural Resources Institute. 13 pp.

### Audio-visual materials

Video: The People and the Sea, Managing our Sea Urchin Harvest.

Video: Earth Report, Hands-On, Net Profits (BBC World/TVE)

## R7976: Institutional arrangements for Caribbean Marine Protected Areas and opportunities for pro-poor management

### Final Technical Report

MRAG. 2003. Final Technical Report: Institutional arrangements for Caribbean MPAs and opportunities for pro-poor management. MRAG Ltd., London, UK. 26pp.

### Main documents

Garaway, C. and N. Esteban. Working draft. Increasing MPA Effectiveness Through Working with Local Communities: Guidelines for the Caribbean. MRAG Ltd, London, UK. 45pp.

Geoghegan, T., A. H. Smith, and K. Thacker. 2001. <u>Characterization of Caribbean marine protected areas: An analysis of ecological, organisational and socio-economic factors</u>. CANARI Technical Report No. 287. 27pp.

### Selected publications

Anderson, W.; Best, M., Richards, R. 2002. Marine Protected Areas: Legal And Policy Framework. Project Report. Barbados: Faculty of Law, UWI. November 2002.

Best, M. 2002. A Review of Legislation, Policy And Institutional Arrangements, Assisting Or Constraining, The Implementation Of Marine Protected Areas In Dominica And The Turks And Caicos Islands. MSc thesis. NRM Program, UWI Cave Hill, Barbados.

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Cummings, A.R. 2002. An Assessment Of The Ecological Impacts Of Two Successfully Implemented Marine Protected Areas In Belize. MSc thesis. NRM Program, UWI Cave Hill, Barbados.

Esteban, N., Garaway, C., Oxenford, H., McConney, P. and Anderson, W. 2002. Project Workshop: Institutional Arrangements For Caribbean MPAs And Opportunities For Pro-Poor Management. A Special Concurrent Session At The 55th Annual Meeting Of The Gulf and Caribbean Fisheries Institute, Xel Ha, Mexico, 11-16 November 2002.

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Annual Meeting Of The Gulf And Caribbean Fisheries Institute (GCFI). Xel Ha, Mexico, November 2002. UK: MRAG Ltd.

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O'Sullivan, C.H. 2002. A Preliminary Assessment Of The Ecological Impacts Of Two Marine Protected Areas In The Wider Caribbean. MSc thesis. NRM Program, UWI Cave Hill, Barbados.

### R8134: requirements for developing successful co-management

### Final Technical Report

Caribbean Conservation Association. 2003. Final Technical Report. Developing guidelines for successful co-management in the Caribbean. St Michael, Barbados: Caribbean Conservation Association

### Main documents

McConney, P., R. Pomeroy and R. Mahon. 2003. Caribbean Coastal Comanagement Guidelines Project: Guidelines for coastal resource co-management in

the Caribbean: communicating the concepts and conditions that favour success. Caribbean Conservation Association, Barbados. 60 pp.

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McConney, P., R. Mahon and R. Pomeroy. 2003. Caribbean Coastal Comanagement Guidelines Project: Belize case study: fisheries advisory board in the context of integrated coastal management. Caribbean Conservation Association, Barbados. 73 pp.

Pomeroy, R. and T. Goetze. 2003. Caribbean Coastal Co-management Guidelines Project: Belize case study: marine protected areas co-managed by friends of nature. Caribbean Conservation Association. 73 pp.

### Audio-visual materials

None

### Other selected documents

Bunce, L. and B. Pomeroy. 2003. Socioeconomic Monitoring Guidelines for Coastal Managers in the Caribbean. World Commission on Protected Areas and Australian Institute of Marine Science. 88 pp.

Geoghegan, T., Y. Renard and N. Brown. 2002. Guidelines for participatory planning: a manual for Caribbean natural resource managers and planners. CANARI Guidelines Series 4.

Renard, Y. 2003. Guidelines for Stakeholder Identification and Analysis. CANARI Guidelines Series 5. In press.

Krishnarayan, V. 2003. Guidelines for Conflict Management. CANARI Guidelines Series 6. In press.

# APPENDIX II: EXPERIMENT COMMUNICATION PLAN TABLES Experiment 1

	of short- Rethinking  - lack Tourism Plan;  uity, Receptivity of Ministry of PUE;  tion of ESA d media Committees; Vision 20/20		(Min. of Strategic no Environmental ntation Impact Assessments (1 for SE Mayaro nt and 1 for NE coast)
Evaluation (All to be confirmed getting at second national messages workshop 2005)	Indicators of uptake:  Attendance of termism – lack invitees at meeting, commitment to turther action (follow-up meeting) relay of press and media information to PSs  Culture of short-termism – lack of continuity, Lack of sensitisation of press and media information to PSs	Indicators of uptake: Transfer of information to other units, commitment to follow-up action (use in programmes and projects) Indicators of uptake: Use of information in articles and columns	Indicators of uptake:  Willingness to
Partner Evaluation (All to be c at second workshop	Indicators of up Attendance of invitees at mee commitment to further action (f up meeting) rel information to F	Indicators of Transfer of information units, common tollow-up a in program projects) Indicators of Use of informaticles and	BPTT, BG Indicators of u or BHP Willingness to participate in c project activitii
Product	Suite 1 case studies, 2-page briefing	Suite 1 case studies; 2-page briefing Suite 1 case studies; 2-page briefing	Suite 1 case studies; 2-page briefing,
Pathway	Breakfast meeting with 5 Ministers	Information relayed to PS by government ministers Ministers One-on-one press briefing with 2 or 3 environmental introductions	ICZM meeting
Objective	Increase awareness of ICZM and of role; getting buy in to the messages; transfer of information	Getting buy-in; effect transfer of information  Effect transfer of information to wider audience	Increase awareness of role in ICZM; getting buy-in
Policy message	The value and need for integrated coastal management The importance of coastal resources for development	The need to include a livelihoods perspective in coastal resource management  The need for canacity, building	and empowerment within civil society  The need for social and economic development actors to become more involved in coastal coastal and coastal coast
Target	Government Ministers:  PUE Energy Agriculture, Land and marine Resources Tourism Planning and Development	PSs: Above Ministries Environmental journalists	Corporations:  BG BTT BHP Billiton First Citizens' Bank (Env. programme)

Target	Policy	Objective	Pathway	Product	Partner	Evaluation	Barriers to	Opportunities
	message					(All to be confirmed at second national workshop 2005)	getting messages across	
CTOs:	and	Increase	Field trip to	Suite 1 case	CBO rooted	Indicators of uptake:		
• EMA	development	awareness of ICZM and of	coastal community	studies; Z-page briefing	in coastal community	Willingness to attend field trip; willingness		
■ TCPD		role; getting buy-	,	)	- BEAT or	to participate in		
■ WASA		·i			NS	follow-up activities		
						(including		
						sponsorship of		
						materials for CBOs);		
						inclusion of policy		
						messages in any		
						disseminated		
						publications or		
						project activities		
CBOs/NGOs		Increase	Flyers;	Flyers;	NS or	Indicators of uptake:		Matura to
		awareness of	brochures (to be	brochures using	BEAT	Willingness to		Matelot Network;
		ICZM and of	used ) in their	information from		distribute and use		ESA
		role; transfer of	own community	Suite 1 case		flyers and brochures		Committees;
		information to	campaigns	studies				CREP
		community						BEAT project

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Experiment 2	7 1						
Targets	Objectives	Pathways	Products	Partners	Evaluation	Opportunity	Barriers
University	Approval by heads of	Face-to-face	Guidelines	Experiment	Number and	UWI faculty and	It can take long for
lecturers	departments and	meetings with	documents	partners are likely	extent of	students will	curriculum
	other managers to	heads of		to be key change	approvals to	attend the annual	changes to be
Managers	include coastal co-	department and	Case studies	agents in the	incorporate co-	GCFI conference	approved
or heads of	management in	senior lecturers		target groups	management	in Nov. 2004	
department	course curricula in		Guidelines case	especially in	materials received		Some course
	the first semester	Referral to visit	updates (new	CERMES and	from heads of	UWI Cave Hill	outlines for the 2 <sup>nd</sup>
Librarians	(ends Dec 2004)	COMARE Net	item)	similar	nnits	campus is	semester may
or similar		web site		departments that		promoting the	have been
	Increased number of		Summary of	lead in coastal	Number and	development of	finalised
See target	co-management	Presentations at	lessons (new	management	extent of use of	on-line courses	
descriptions	messages in coastal	training	item)	training	messages		Literature and
in previous	management	workshops for			reported in the	Governance has	other teaching
tables.	courses by second	UWI faculty	Case studies		terminal workshop	been identified as	materials do not
	semester (ends May		slides (new)		compared to the	a cross-cutting	necessarily
For this	2005)	Lectures/seminars			inception	theme for	circulate well
experiment		in departmental	Lecture			CERMES courses	among faculty and
the targets	Increased access to	series	notes/quick		Survey of faculty		may not reach
may all be	materials related to		reference guide		and students to	Several series of	students
treated	co-management in	On-line course for	(new)		assess any	seminars and	
similarly	UWI libraries and	teaching of co-			changes in the	discussions at	The COMARE Net
	teaching units by	management	On-line course		accessibility of	IMO	web site and
	second semester		(new)		items included in		mailing list must
		Field trip briefings			the experiment	Inter-campus	be fully
		and presentations	Co-management			environmental	operational for
			slide show (new			network exists	original project
			or modified)				products to be
							distributed

Experiment 3

	Activity 1	Activity 2	Activity 3	Activity 4	Activity 5 (optional)
General audience	Resource users and communities impacted by MPAs.	MPA managers and management scientists and coastal area planners.	MPA managers, co- management partners, and government agencies responsible for MPAs.	Organisations providing technical support to MPA management or advocating for improved coastal area management.	Selected MPA manager with limited experience in and little exposure to community issues and needs.
Specific target	Fishers and community members involved in MPA management in Jamaica and Cuba.	All members of general audience with Internet access.	Depends on opportunity selected; see options below.	Four to eight interested organizations.	Depends on potential for partnership/funding.
Objective	Local demand for integrated and equitable MPA management increased, resulting in increased participation in management decisions and activities within 6 months of activity.	Practices and approaches for integrated and equitable MPA management developed and documented in Suite 1 and related products tested by at least three MPA managers by EOP.	Sustainable livelihoods issues understood and incorporated into management objectives and arrangements of three MPAs within 6 months of participation in activity.	A livelihoods dimension incorporated into the MPA technical support approaches of two organizations participating in the activity by EOP.	Selected MPA manager sensitised to the need for management approaches that take community and livelihood needs into account, and able to identify the tools required for such approaches by EOP.
Pathway	Seminar on MPAs and Fishing Communities (held in June 2004).	Internet: webpage posted on CANARI website with links to sites of main partners.	Training workshop.	Study tour of Negril Marine Park and community.	Individual multi-site study tour or mentoring arrangement (face to face meetings).
Products	Guided discussions and field visit based on messages of Suite 1 projects.	X R7559 and R8134 case studies and guidelines X policy brief based on MPAs and Fishers seminar X links to materials from other research relevant to MPAs and coastal communities.	Training materials based on relevant messages and tools from Suite 1, supported by:  X R7559 case studies  X R7559 MPA guidelines  X policy brief based on results of MPAs and Fishers seminar (to be prepared)  X Negril case study package (to be prepared).	Negril case study package (to be prepared).	R7559 MPA Guidelines as framework for meetings and discussions. Suite 1 case studies and Negril case study package to illustrate issues and approaches.

Activity 5 (optional)	See Opportunities below	Baseline and end-of- project assessments of KAP; diary of participant's observations, impressions, and learning.	May be possible to arrange study tour for new manager of East End Marine Park, St. Croix with funding from NOAA.	High cost for only one person.
Activity 4	NCRPS, Counterpart Caribbean	Participatory evaluation of usefulness of case study package at the end of study tour. Follow-up interviews with sample of participants on whether and how they incorporated learning into their work.	AID could be approached to sponsor participants; Sea Grant might be able to contribute to costs of a Puerto Rican participant.	
Activity 3	option e s below).	op evaluation; rvey on use	SocMon training workshop for Eastern Caribbean.	Scheduled for 2005 (may be too late?).
Activ	Depends on option selected (see Opportunities below).	Post-workshop participatory evaluation; Follow up survey on use of materials.	UNEP MPA Training of Trainers Course.	Modules now being revised by TNC; date of next course not set (could be too late for project).
Activity 2	CANARI; UWI; Sea Grant	Phone survey of random sampling of target audience from list serves used to announce the page: whether they visited, what they downloaded, how they used it, how useful they found it.	Use CAMPAM and other list serves to make available to target audiences.	Although identified as a preferred pathway by limited sampling of target audience, Internet may not be accessible to or actively used by the entire audience.
Activity 1	UPR Sea Grant, NCRPS	Follow up survey of participants 6 months after seminar to assess use of knowledge gained and changes in level of involvement in MPA management.		
	Partners	Evaluation	Opportunities	Barriers

		Λί	doc		inst	ě e																							
M&E	Pre-workshop	baseline survey	among workshop	participants	compared against	survey of uptake										Telephone	interviews												
Opportunities	Existing	partnerships	between	CANARI and	civil society	organisations	in the region		Planned	workshop with	insert agenda	item				Various	meetings and	conferences,	direct mailing	and visits to	funding	agencies	1						
Evaluation	Pre-workshop	baseline	survey	among	workshop	participants		Survey of	uptake,	September 2005	2007					Questionnaire	on pathway	preferences		Telephone	interviews								
Partners	CANARI to	implement														Sea Grant	College	Program at	UPR										
Products	PowerPoint	presentation	on concepts,	issues and	roles,	illustrated by	the case of	the SMMA	and other	examples	Policy brief	on research	gaps.	priorities and	opportunities	Poster	(interactive,	well	designed)										
Pathways	Presentation at	regional	workshop –	(Conflict	Management	or	Organisational	Development),	April 2005							Distribution	(mailing and	electronic) of	documents	(brief and	posters)		One-on-one	communication					
Objectives	Increased	confidence and	ability to	pecome	involved in	influencing and	designing	research	processes							Awareness of	needs and	opportunities	for research		Readiness to	provide	support to	research	Commitment to	inter-agency	collaboration to	support	
Messages	See table	_																											
Targets	Activity 1:	Civil society	"brokers"													Activity 2:	Funding	agencies											

							<u>~</u>										key													
M&E	Telephone	interviews and	observations of	behavioural	change,	documented in	report/case study										Interviews with key	informants in	target	communities										
Opportunities	Current	involvement	of GM in work	with target	group		Recent	involvement	of SM in work	with target	group						Link to BG	Science	<b>Bus/NIHERST</b>	Science	Weeks and	other school-	or community	-based	activities					
Evaluation	Case study of	impact and	change																											
Partners	Garret	Manwarring															Local partner	in TT, to be	identified											
Products	All Suite 1	products															Mobile	exhibits												
Pathways	Mentoring and	one-on-one	communication														Exhibition													
Objectives	Increased	appreciation of	the benefits to	be derived	from	supporting	research on	coastal	management	issues that is	relevant to	poverty	reduction and	social	development	agendas	Awareness	and	appreciation of	potential role in	defining and	influencing	research	agenda	3	Recognition of	value and	importance of	local	knowledge
Messages																														
Targets	Activity3:	Large-scale	private sector	resource	user (one	targeted	company,	with Public	Affairs	department)							Activity 4:	Local	communities											

Targets	Targets Messages	Objectives	Pathways	Products Partners		Evaluation Opportunities	Opportunities	M&E
Activity 5:		Awareness of	Distribution	Policy brief	Policy brief   COMARENet	Questionnaire	Dissemination	Questionnaire   Dissemination   Interviews with key
Research		agenda	(mailing and			with sample	at regional	informants in UWI
units, and			electronic) of	Poster	Universities		events,	system to assess
faculty within		Willingness to	brief and				including	uptake
regional		support	poster				academic	
universities		implementation	One-on-one				meetings	
		of agenda	communication					

# APPENDIX III: SUMMARY OF MAIN CONCLUSIONS AND RECOMMENDATIONS FROM COMMUNICATION EXPERIMENTS

While dissemination can be achieved within a reasonably short time frame, the changes in practices, attitudes, behaviours and policies that confirm uptake of messages and tools often take many months or years to occur. Because of the short project time frame and limited resources available, the testing of some products and pathways can be considered incomplete. More work is needed on assessing uptake, especially tools and approaches, over the medium and long term.

The project has enabled many lessons to be learned about the products, pathways and uptake of various messages targeted to a wide range of stakeholders, but these are necessarily preliminary and incomplete. The following general recommendations have been compiled from each communication experiment.

- Products cannot simply be offered, they need to be disseminated in strategic ways and with appropriate follow-up. This implies partnerships with those agencies and organisations with greatest access to the main target audiences for the products.
- Because the target audience is often highly diverse, there is a need for a similar diversity of products and pathways to reach them. Strategies that are effective for reaching some segments of the audience may completely miss other. For the same reason, messages need to be conveyed in a variety of ways and through a range of channels. The differing viewpoints and frames of reference of audiences also need to be taken into account.
- In general, products should not be limited to tangible materials. Guided discussions, semi-formal presentations and field trips can be more effective in communicating many concepts because they allow people to draw on their own context and experience and provide space for interactive discussion.
- Uptake of tools and approaches appears highest when stakeholders can immediately apply them. This suggests that strategies to disseminate tools and approaches should include their application to real issues that the target audience is dealing with.
- Reinforcement of messages helps assure uptake. Strategies should therefore make provision for follow-up after a communication activity.
- Uptake can be improved by promoting a range of products with similar messages, for example a PowerPoint presentation with associated printed material or CD.
- Uptake is facilitated by discussion that challenges stakeholders' preconceived ideas, and bringing diverse groups of stakeholders together contributes to this process.
   People tend to remember and be influenced by the outcomes of difficult debates and arguments.
- In general, face-to-face meetings proved the most effective means of promoting the uptake of products, whereas distribution of products and obtaining feedback, particularly via email was not very effective.
- In addition to the above, the main conclusion from experiment 4 was that there remains a critical need to promote a research agenda that links coastal management, sustainable livelihoods and poverty reduction in the Caribbean region, but this

promotion requires a long-term effort and significant resources in order to be effective. This study has confirmed or revealed that there are significant obstacles to the uptake of the messages that this experiment intended to disseminate.

• The best pathways are often those that are based on normal and regular activities of the intended target audience

### APPENDIX IV PRODUCT TOOLBOX

### **Experiment 1**

**CANARI. 2005.** *Integrated Coastal Zone Management.* R8317 Briefing paper. Laventille: CANARI, 2pp.

**CANARI. 2005.** *Trinidad's Coastal Zone: Whose responsibility?* R8317 Briefing Paper. Laventille: CANARI, 2pp.

**CANARI.** 2005. Slide presentation. *Influiencing coastal zone management policy in Trinidad: Challenges and Opportunities*. Laventille: CANARI.

**CANARI.** 2005. Role of key stakeholders in coastal zone management – Trinidad and Tobago Laventille: CANARI, 1pp.

**CANARI. 2005.** The linkage between land-based activities, coastal resources management and coastal livelihoods, and the role of public agencies – Trinidad Laventille: CANARI, 1pp.

### **Experiment 2**

**Parsaram, K and McConney, P. 2004.** Barbados Case Study: The fisheries advisory committee, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 10pp.

**Parsaram, K and McConney, P. 2004.** Barbados Case Study: The sea egg fishery, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 10pp.

**Parsaram, K and McConney, P. 2004.** Belize Case Study: Fisheries advisory board in the context of integrated coastal management, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 10pp.

**Parsaram, K and McConney, P. 2004.** Belize Case Study: Marine protected areas comanaged by Friends of Nature, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 9pp.

**Parsaram, K and McConney, P. 2004.** Grenada Case Study: Legalisation of Beach Seine traditional rules at Gouyave, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 10pp.

**Parsaram, K and McConney, P. 2004.** Grenada Case Study: The lobster fishery at Sauteurs, a summary of lessons learnt. Barbados: Caribbean Conservation Association. 10pp.

**Parsaram, K and McConney, P. 2004.** Lecture notes. Guidelines for coastal resource comanagement in the Caribbean: communicating the concepts and conditions that favour success. Pro-poor policies and Institutional arrangements for coastal Management in the Caribbean. Barbados: Caribbean Conservation Association. 50pp.

### **Experiment 3**

**CANARI. 2005.** *Marine Protected Areas and Sustainable Livelihoods.* CANARI Policy Brief No. 5. Laventille: CANARI. 4pp.

**CANARI.** 2005. Training Module Outline *Marine Protected Areas and Sustainable Livelihoods* Laventille: CANARI. 2pp.

CANARI. 2005. Training Module Slide Presentation Marine Protected Areas and

Sustainable Livelihoods Laventille: CANARI.

**CANARI. 2005.** Slide Presentation. *Marine Protected Areas and Sustainable Livelihoods:* Lessons from Negril Marine Park Laventille: CANARI.

**CANARI. 2005.** Poster. Negril Marine Park and Sustainable Coastal Livelihoods: A village transformed Laventille: CANARI.

**CANARI. 2005.** Poster. Negril Marine Park and Sustainable Coastal Livelihoods: Creating a marine park. Laventille: CANARI.

### **Experiment 4**

Suite 1 Products as listed on pp 39-44 above

**CANARI.** 2005. Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean CANARI Policy Brief No. 6. Laventille: CANARI, 4pp.

**CANARI.** 2005. Slide Presentation. *Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean* Laventille: CANARI.

**CANARI. 2005.** Poster. Linking coastal management, sustainable livelihoods and poverty reduction: a research agenda for the Caribbean CANARI Policy Brief No. 6. Laventille: CANARI, 4pp.

**Renard, Y. 2005** Institutional arrangements for coastal management in the Caribbean: A Preliminary research agenda Laventille: CANARI, 9pp.