



## THE CORAL TRIANGLE INITIATIVE ON CORAL REEFS, FISHERIES AND FOOD SECURITY

# CTI Climate Change Adaptation for Coastal Communities Course

Port Moresby, Papua New Guinea Sept. 19-29, 2011



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COASTAL RESOURCES CENTER  
University of Rhode Island



# **CTI Climate Change Adaptation for Coastal Communities Course Port Moresby, Papua New Guinea Sept. 19-29, 2011**

**Prepared for the US Agency for International Development  
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## **DISCLAIMER**

**The views expressed in this document do not necessarily reflect the views of the United States Agency for International Development or the United States Government.**

# Contents

I.	INTRODUCTION.....	1
1.1.	Background.....	1
1.2.	Objectives.....	1
1.3.	Participants.....	2
1.4.	Methodology.....	2
2.0	SUMMARY OF TRAINING PROCEEDINGS.....	3
2.1	Eight-Day Course (September 19-26, 2011).....	3
2.2.	Three-Day Training of Trainers (September 27-29, 2011).....	6
3.0	EVALUATION.....	7
3.1.	Summary of Eight-Day Course Evaluation Results.....	7
3.2.	Summary of Three-Day TOT Evaluation Results.....	8
4.0	RECOMMENDATIONS.....	8
5.0	ANNEXES.....	10
Annex 1:	Training Agenda.....	11
Annex 2:	List of Participants.....	14
Annex 3:	Site Work Plans.....	18
Annex 4:	Draft Concept Note - National Pool of CCA Trainers.....	23
Annex 5:	Press Release.....	25

# I. INTRODUCTION

## I.1. Background

The Coral Triangle Initiative for Coral Reefs, Fisheries and Food Security (CTI-CFF)'s **Regional Plan of Action** (RPOA) was launched in May 2009 by the six Coral Triangles countries (Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and Timor-Leste). The RPOA's Goal 4 encourages local government and communities to understand, assess and take action on coastal issues related to climate change. To catalyze regional sharing of knowledge, methods and strategies related to coastal adaptation, the CTI Climate Change Adaptation Technical Working Group have agreed to adapt and transfer to the Coral Triangle regional and national institutions a short course in *Climate Change Adaptation (CCA) for Coastal Communities* that is based upon a similar course that fourteen CT6 representatives attended in 2010 at the Coastal Resources Center at the University of Rhode Island (CRC).

This training is the first of the two to be conducted for the 6 CTI countries. This first training was conducted for two Pacific countries in CTI (Solomon Islands and Papua New Guinea) and was hosted by the Government of Papua New Guinea. The Coastal Resources Center at the University of Rhode Island (CRC) in partnership with the University of the Philippines Marine Science Institute led the team of trainers. Additional support, technical expertise and facilitation were provided by the USCTI Support Program Integrator, NOAA and the Coral Triangle Support Partnership (CTSP). The second training will be conducted in the Philippines in early 2012. Both training events are supported by the US CTI Support Program.

## I.2 Objectives

At the conclusion of both the *Climate Change Adaptation for Coastal Communities* course (8 days) and the Training of Trainers (ToT) (3 days) the desired results are:

- a) National government, local government, and assisting organization teams strengthened to:
  - Identify climate change risks and assess adaptation options for critical coastal infrastructure, habitats and vulnerable segments of society (i.e. livelihoods/gender) in an integrated coastal management context.
  - Lead an integrated local early action planning process for CCA (organize a team, conduct a qualitative vulnerability assessment, and use the results for early action planning) and manage CCA programs at the national and sub-national levels
- b) Plan developed to conduct a local vulnerability assessment and identify early actions for CCA in one or two priority/demo sites, with a core team and resource needs identified for PNG and the Solomon Islands for immediate implementation
- c) National resource team (university, experts, links with other organizations, NGOs) strengthened to support the national and local actions as the country teams move toward implementation and replication of the curriculum, adaptation planning and implementation actions.
- d) Core team of national managers and resource persons from Pacific strengthened to contribute to regional CTI capacity and future replication and sharing.

The program for the 8-day course and the 3-day ToT is attached in Annex I.

### 1.3 Participants

Twenty-four participants from Solomon Islands (10) and Papua New Guinea (14) attended the 8-day (September 19-26) CTI Course on Climate Change Adaptation for Coastal Communities. The participants represented midlevel managers from national government agencies, local governments, nongovernment organizations and academic institutions of both countries. The course was designed to enable participants to assess their own communities' vulnerability to climate change risks and identified adaptation measures and best practices local communities and local governments could do to be resilient to climate change. By the end of the training, participants crafted an example early action plan to apply the skills acquired from this course in specific sites namely in Manus province, Milne Bay and Kimbe Bay in Papua New Guinea as well as in Choiseul and Western Provinces in Solomon Islands.



Thirteen of the 24 participants stayed on and one member of the secretariat joined in for another three days (September 27-29) to harness their skills and competencies to be able to conduct the CCA course nationally. The 3-day ToT was designed to organize and train a team of national trainers to adapt, and replicate the 8-day CCA Training Course across each of these two participating countries.

**Table 1: Summary of Participants**

Participating Countries	8-day Course Participants	TOT Participants
Papua New Guinea	14	10+1 <sup>1</sup>
Solomon Islands	10	3
TOTAL	24	14

All participants were given electronic files of all the course materials, workshop outputs and photos through USB drives distributed at the end of the course. Full list of participants as well as resource team is found in Annex 2.

### 1.4 Methodology

The 8-day course and the TOT employed the principles of adult learning with a focus on interactive activities that address the practitioners' needs and immediate options for application. During the 8-day course, the participants used a step-by-step process outlined in the Guide for Developing a Local

<sup>1</sup> Luanne Losi of the Office of Climate Change and Development of PNG who was part of the Secretariat during the 8-day course, joined the 3-day TOT full time.

Early Action Plan for Climate Change Adaptation (LEAP). The LEAP Guide, developed by US CTI Support Program, was designed to support local implementation of the CTI Region-wide Early Action Plan for Climate Change Adaptation (REAP) and assist local governments, nongovernment organizations, and academic institutions working with coastal communities in the region to raise awareness on climate change issues and identify early actions to adapt to climate change. The training also provided an opportunity to solicit comments from the participants to refine the guide.

Additional methodologies and cases were highlighted to expose participants to the variety of methods and tools being applied in the Coral Triangle region. Field trips to local coastal communities also allowed for the application of new skills and analysis.

## 2. SUMMARY OF TRAINING PROCEEDINGS

### 2.1 Eight-Day Course (September 19-26, 2011)

#### *Opening Program*



*Amb.T. Taylor (C) delivering his opening message.*

Ambassador Teddy Taylor graced the Opening Program on September 19 and had the opportunity to interact with the participants and to encourage them to take advantage of this training opportunity to discuss and share challenges, experiences and practices that can be adapted locally. In his message, Ambassador Taylor underscored the importance of teamwork to be able to adapt to climate change risks and identify methods that best fit to local conditions. He also noted that the US Government has signed USD 21 million climate change assistance to the Secretariat of Pacific

Community (SPC). And that the participants can begin to develop solutions making use of this funding opportunity. Mr. Varigini Badira of the Office of Climate Change and Development also joined in the opening ceremonies representing the host government.

#### *Sessions*

The course is designed around eight modules with each module containing distinct sessions. The eight modules are: 1) Getting Organized; 2) Raising Community Awareness to Climate Change in Coastal Areas; 3) Assessing Non-Climate Threats; 4) Creating a Local Climate Hazard Story; 5) Vulnerability Assessment; 6) Risk Assessments and Priorities; 7) Adaptation Analysis; and 8) Finalizing Your Local Early Action Plan. These modules are designed following the CCA Toolbox developed by US CTI Support Program.



Module 1 (divided into 4 sessions and delivered on Day 1) was designed to help participants identify the issues each team wanted to address and discuss their current thoughts on adaptation strategies. A summary of what was happening across the region provided context of current tools and strategies. There were 5 sub-groups organized representing the 3 sites in Papua New Guinea Manus, Milne Bay and Kimbe Bay in Papua New Guinea and 2 sites Solomon representing the Western and Choiseul Provinces. Each sub-group was introduced to the Local Early Action Planning (LEAP) process for CCA (Tool Number 4 of the CCA Toolkit) and by the end of the module, each sub-group filled out worksheet 1 (Writing Your Local Early Action Plan for Climate Change Adaptation); worksheet 2 (Get Organized for Action Planning); worksheet 3 (Involving Stakeholders) and worksheet 6 (Conduct Sea Level Rise Impact Mapping Activity). Also in this module, the participants were given information on Climate Change Projections from Global to Local scales using Tool 3 of the CCA Toolkit.

Module 2 (divided into 4 sessions and delivered on Day 2) introduced key terms and concepts associated with climate change and adaptation such as exposure, sensitivity and adaptive capacity. Review of coastal ecosystems and how they are affected by changes in climate were also explored including identifying biophysical and socio-economic impacts brought about by climate change. This module culminated in the application of a community outreach tool (Tool 2 of the CCA Toolkit) to explain coastal ecosystems and the influence of climate change. By the end of the module, each subgroup built on the worksheet 1 by adding resilient factors into each worksheet. The participants would revisit these factors when identifying adaptation options for their respective sites.



*Participants performing beach profiling exercises*

Module 3 (one session only and delivered on Day 3) focused on the present situation that coastal communities are experiencing. The conservation threats-target-action model was used to identify potential management actions that could address non-climate issues that are impacting target resources. By the end of the session each sub-group developed their own threat action model, and completed worksheet 8 (Identifying and Mapping Target Resources); worksheet 9 (Identifying and Mapping Threats, Impacts and Causes); and worksheet 10 (Identifying Early Actions to Reduce Threats).



*Dr. F. Siringan of UPMSI (L) explaining the protocols in Coastal Integrity Assessment*

Module 4 (5 sessions and delivered on Day 3) delved on low tech tools that could be used to develop a local climate story. Participatory rural appraisal tools were used to expose participants to methods of gathering information to understand the current awareness and concern related to changes in climate over time from stakeholders. During various sessions in this module, participants completed worksheet 11 (Developing Local Climate Story); worksheet 12

(Historical Timeline); worksheet 13 (Seasonal Calendar); worksheet 14 (community walk supplemented with beach profiling exercises); and worksheet 15 (Completing a Strength-Weakness Analysis). These tools identified the issues that would help focus the vulnerability assessment to follow.

Module 5 (5 sessions and delivered on Days 4 and 5) provided subgroups with opportunities to assess the vulnerability of their places using low (i.e., Participatory Rural Appraisal tools) and high tech methods (i.e., UPMSI Coastal Integrity Assessment tool). Participants practiced applying these tools through a field exercise. This was designed to enable participants to work with communities on conducting/deepening vulnerability assessment processes after the course. By the end of the module, the participants built on worksheet 15 (Completing a Strength-Weakness Analysis), updated each sub-group's Threat-Action Model and completed worksheet 16 (Assessing Vulnerability).



*Participants during the field exercises on the use of Coastal Integrity Assessment tool*

Module 6 (2 sessions and delivered Day 6 but adjusted to adapt to time constraints), provided an opportunity for the participants ran through key techniques in assessing risks and prioritizing adaptation priorities. Risk assessments helped put the vulnerability assessment results into perspective. Highest risks would be addressed based on management priorities – with some teams choosing lower risk but easier issues to deal with first. These sessions provided the foundation for discussions on Adaptation Options.



*One of the small group sessions on conducting community outreach activities for CCA*

Module 7 (4 sessions and delivered on Days 6 and 7), introduced participants to way to analyze adaptation strategies to understand cost and benefits of as well as prioritization of actions. Participants were introduced to Adaptations for Coastal Infrastructures as well as options for Natural Coastal Areas. The participants were introduced to tools for evaluating adaptation options such as POSE (Physical, Organizational, Social and Economic) Analysis. By the end of this module, the sub-groups completed worksheet 17 (Refine and Identify Additional Actions) and worksheet 18 (Prioritizing Early Actions: Balancing Benefit and Feasibility).

Module 8 (one session and delivered on Day 8) introduced participants to CCA Benchmarking System (Tool I of the CCA Toolkit). In this module, participants identified early actions that they committed to implementing post-course to move forward on building awareness of climate change and its impacts and vulnerability assessments. The priority was to identify roles for each organization as participants explored linking their resources and activities with one another to maximize efficiency and effectiveness. The subsequent workshop (ToT) focused on 2 action items: 1) each



sub-group was to develop follow up actions to fill in gaps in order to do a vulnerability assessment and implement early adaptation plans and 2) develop individual actions for each participant to apply what they learned during the 8-day course within their agencies or organizations. Discussions on the CCA Learning Network and how the participants could be made part of this network also ensued.

The example outputs of the LEAP process for each of the 5 sub-groups can be found online at the CTI Partner Portal at [www.uscti.org](http://www.uscti.org) (username: coral, password: triangle).

### Closing Program



*Ms. K. Kumaras-Kalim (C) of PNG-NCC distributing certificates of completion to CCA participants*

The 8-day course was capped with a closing ceremonies attended by Ms. Kay Kalim of the Department of Environment and Conservation (DEC). In her message, she expressed her gratitude to the US CTI Support Program for bringing the course to PNG. She noted that this is the first time that a CTI regional event was held in the country and she said, she would push for the conduct of other CTI regional event in PNG in the future. Speaking to the participants, she emphasized that since they have gone through the intensive training on CCA, they at the National

Coordinating Committee would look forward to consulting the participants for inputs and recommendations as they move forward in implementing the PNG's National Plan of Action (NPOA). Mr. Varigini Badira of the Office of Climate Change and Development also joined the closing program.

### 2.2. Three-Day Training of Trainers (September 27-29, 2011)

The 3-day Training of Trainers (ToT) was designed to strengthen the capacity of national trainers to train others in coastal adaptation to climate change. The ToT was based on adult learning methodologies to ensure relevance to participants and immediate application. Four modules made up this course – curriculum design, interactive training methodologies, delivery and team planning for replication. This was a fast-paced and focused course to cover a variety of core topics with some practice sessions culminating in a draft training plan for participants to deliver a future course.



*TOT participants preparing their individual session guides/plans*

The ToT consisted of four modules each containing distinct sessions. These modules are: 1) Designing Curriculum; 2) Interactive Training Methods; 3) Delivery and 4) Planning for Replication. The TOT course provided opportunities for participants to practice skills like public speaking, designing interactive learning exercises, presentation each day and to build on those skills over three days. The focus of the sessions alternated between attention on individual skills and knowledge versus team workplans and curriculum drafts. URI trainers committed to providing ToT participants with modest long-distance coaching as they develop their instructional plans for a future training event.



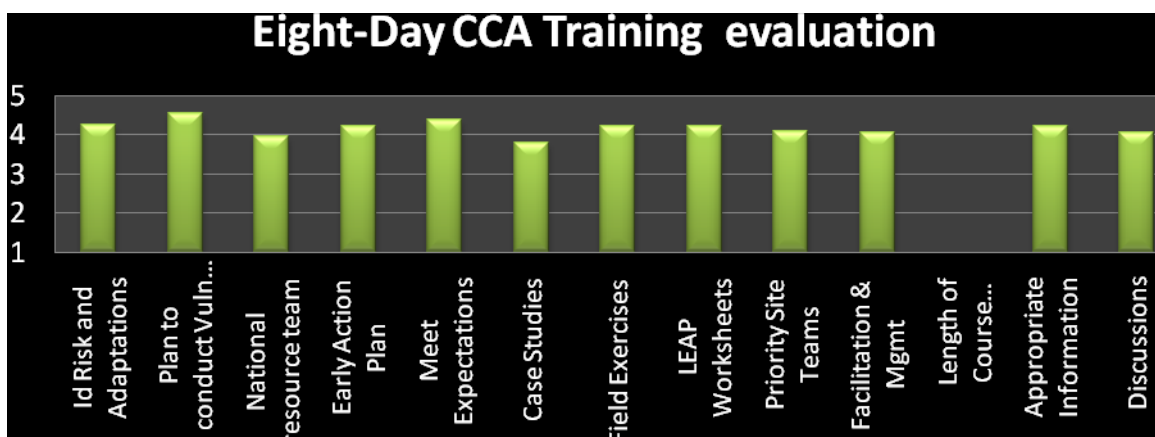
*One of the interactive exercises used to introduce climate change concepts*

By the end of the 3-day ToT participants designed curriculum, modules and session plans individually incorporating interactive training methods and learning exercises. These outputs created the basis of their individual training instructional plans for future courses. Participants also shared and facilitated at least one interactive session/learning exercise that could be used by other ToT participants in training events. Finally they discussed recommendations in forming a country training team across organizations to provide support for one another in the revision and delivery of a climate change for coastal communities course in the near future. Annex 4 shows the draft concept note on the establishment of the National Pool of CCA Trainers as discussed by participants.

## 3. EVALUATION

### 3.1. Summary of Eight-Day Course Evaluation Results

The evaluation of the eight-day course appeared to be satisfactory. Based on the participants' evaluation, eleven of the evaluation parameters had an average rating of 4 or above in the scale of 1-5. The evaluation comments showed that most participants highly appreciated the field exercises like the beach profiling and the use of coastal integrity assessment tools in conducting vulnerability assessment. Some participants noted that the mentorship approach worked for the sub-groups and they highly appreciated that a draft LEAP document for each site was produced by the end of the course. This proved to be a good starting point for them to move forward post-course.

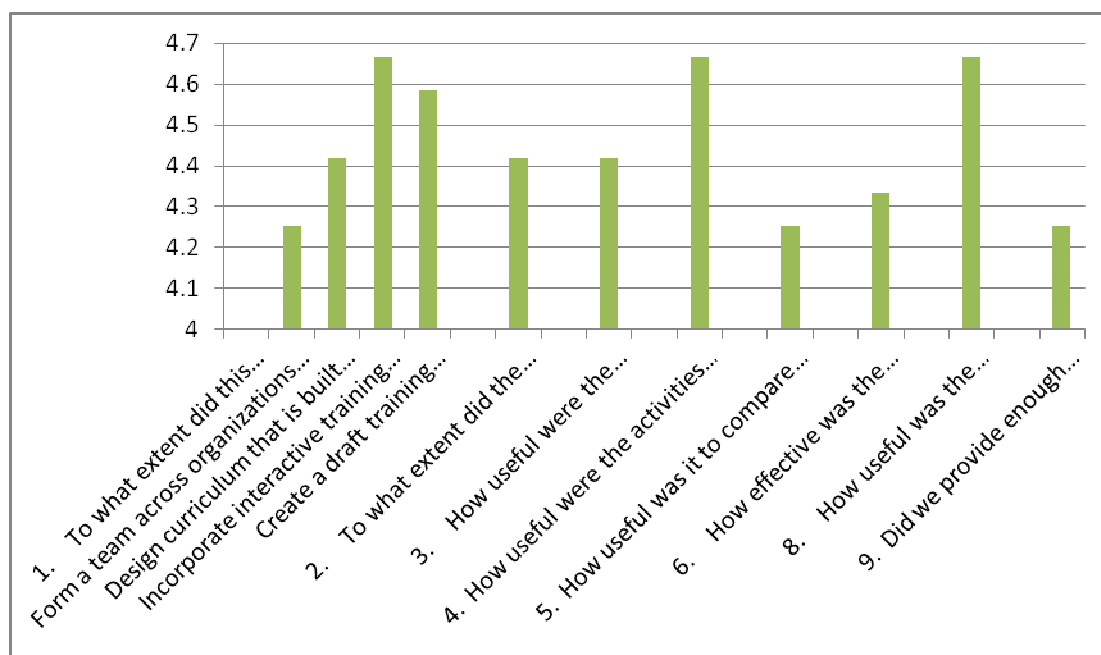


Participants however strongly suggested that resource persons use local case studies or where possible provide localized information of the status of resources and impacts brought about by climate change. Most also noted that this type of training activities should be conducted on-site and organizers should consider not training over the weekend. In addition, the participants also suggested that facilitators should orient the participants to the contents and the organization of information in the binder. Some noted that they would be able to navigate more easily through the material if this had been sufficiently explained. Though this was addressed the first day, this feedback

illustrates the importance of constantly orienting participants to where they are in the process and in the binder frequently. Most participants felt the training was too short.

### 3.2. Summary of Three-Day ToT Evaluation Results

At the end of the 3-day ToT, 12 of the 14 participants submitted their ToT course evaluation. Thirteen evaluation questions were asked and 8 of these were answered in a scale of 1-5. These 8 questions pertained to what extent the course objectives were achieved, if expectations were met, usefulness of practice sessions, usefulness of drafting course plan, usefulness of comparing course content with others, effectiveness of facilitation, usefulness of information provided in binder, presentations and electronic files and opportunities provided to participants for discussion. The graph below shows that most participants rated the evaluation questions quite high.



In terms of meeting the course objectives, the course evaluation indicates that all the four objectives are sufficiently met. The participants however noted that formation of training teams for CCA would need to be made a government priority (organizing, funding) if this initiative was to have an impact.

Most participants also noted that expectations are generally met and facilitation, training methodologies and materials were useful. They recognized though that they needed to practice to be able to harness skills acquired as they find the course a bit short. In future ToTs, the participants suggested more extensive public speaking skills development especially for Melanesians as well as providing opportunities for sharing with other participants.

## 4. RECOMMENDATIONS

These recommendations were drawn from various discussions and debriefing sessions with some members of the resource team and should be used to improve the second training to be conducted

in the. The recommendations outlined below are also based on evaluation comments and discussions with the participants during the work plan presentation.

- **Streamline LEAP Process.** It is recommended that the LEAP process be reviewed to ensure that this fits with the requirements of local communities or builds on existing initiatives if there are any. Furthermore, for the Philippines training and in working with other Asian countries, it is recommended that a review on the status and systems that are already in place in each country be completed so that the training can be tailor-made to the needs of participating countries.
- **Revisit the Eight-Day Course.** It is recommended that the agenda of the course be revisited to ensure that the order of sessions are tight and corresponds to the LEAP process. It was noted that participants had difficulty following the process on some instances when the program was modified.
- **Site-Based Training.** It is recommended that this type of training event be conducted on-site so it builds on existing initiatives and participants from other places can learn from existing adaptation measures that are successfully implemented.
- **Secure Participants' Feedback.** Since the participants have committed to carry out the LEAP process in respective communities, it was recommended that participants will provide feedback on the use of the tool. Participants are encouraged to adapt and make adjustments if necessary.
- **NCC and CTSP Support to the Training Team.** Training participants recommended that national and sub-national training teams be supported by the respective NCCs and CTSP for them to be able to carry out training support functions not just in priority geographies but nationally as well.
- **Organize the National Training Team.** Noting that the ToT participants came from various national agencies, local governments, academic institutions and non-government organizations, it was recommended that the national training team be formally organized through the NCC with specific mandate, terms of reference, implementation mechanisms and budget allocation to be able to respond to CCA training needs in other areas within their respective countries.
- **CCA Learning Network.** It was recommended that the participants will form part of the CCA Learning Network. The national coordinating hub shall be housed through the Office of Climate Change and Development (OCCD) for PNG and the Ministry of Environment, Climate Change, Disaster Management and Meteorology for Solomon Islands to ensure follow up actions and communications will be channeled properly. These agencies could also serve as a node of reporting progress of site and individual 6-month work plan.
- **CCA Conference.** Moving forward a year or so after the training, the participants recommended that they will share through a conference the adaptation measures and mainstreaming activities they implemented or carried out in their respective agencies.

Information gathered through this conference could also serve as a report card for the training participants on their progress vis-à-vis their respective CCA early action plans.



# 5. ANNEXES

## Annex I: Training Agenda

**CTI Course on Climate Change Adaptation for Coastal Communities  
September 19-26, 2011  
Training of Trainers Course for CCA National Teams  
September 27-29, 2011  
March Girls Resort, Port Moresby, Papua New Guinea**

### AGENDA

Time	Session	Resource Person/ Facilitator
<b>Day 1 (September 19, Monday) – Getting Organized</b>		
08.00-09.00	<b>Session 1.1</b> Welcoming and Overview of Course Objectives	Glenn Ricci, URI-CRC
09.00-10.00	<b>Session 1.2</b> Introduction of Teams and Focal Site Issues	Glenn Ricci, URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 1.2</b> Continued	Glenn Ricci, URI
12.00-13.30	- Lunch-	
13.30-15.00	<b>Session 1.3</b> Climate Projections from Global to Local	Britt Parker, NOAA
15.00-15.30	-Break-	
15.30-17.30	<b>Session 1.4</b> Status of Coastal Adaptation Planning and Implementation in the CT Region	Miledel Quibilan, UP-MSI
18.00-21.00	-Dinner at Hotel-	
<b>Day 2 (September 20, Tuesday) - Raising Community Awareness</b>		
08.00-08.15	-Daily Review-	
08.15-09.00	<b>Session 2.1</b> Back to Basics: Climate Change Concepts and Terminology	Glenn Ricci, URI-CRC
09.00-10.30	<b>Session 2.2</b> Applying Climate Change Concepts: Reflecting on Recent Hazards and How the Coastal System Responded	Glenn Ricci, URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 2.3</b> Impacts of Climate Change on Coastal Communities	Fernando Siringan/ Miledel Quibilan, UP-MSI
12.00-13.30	-Lunch-	
13.30-15.00	<b>Session 2.3</b> Continued	Fernando Siringan/ Miledel Quibilan, UP-MSI
15.00-15.30	-Break-	
15.30-17.30	<b>Session 2.4</b> Village Communication of Climate Change	Meghan Gombos, CTSP
18.00-21.00	-Dinner at Hotel-	
<b>Day 3 (September 21, Wednesday) - Assessing Non-Climate Threats</b>		

Time	Session	Resource Person/ Facilitator
08.00-08.15	<i>-Daily Review-</i>	
08.15-10.00	<b>Session 3.1</b> Mapping Non-Climate Threats and Actions	Meghan Gombos, CTSP
10.00-10.30	<i>-Break-</i>	
10.30-12.00	<b>Session 4.1</b> Introduction to the Local Climate Hazard Story	Glenn Ricci, URI-CRC
12.00-13.30	<i>-Lunch-</i>	
13.30-15.00	<b>Session 4.2</b> Low Tech Tools to Gather Climate Change Information From the Community	Miledel Quibilan, UP-MSI
15.00-15.30	<i>-Break-</i>	
15.30-17.30	<b>Session 4.3</b> Field Exercise Measuring the Shoreline	Pam Rubinoff, URI-CRC
18.00-21.00	<i>-Dinner at Hotel-</i> Data Analysis Exercise	
<b>Day 4 (September 22, Thursday) – Creating Local Climate Hazard Story</b>		
08.00-08.15	<i>-Daily Review-</i>	
08.15-10.00	<b>Session 4.4</b> Field Exercise Using Participatory Rapid Assessment (PRA) Tools	Miledel Quibilan, UP-MSI
10.00-10.30	<i>-Break-</i>	
10.30-12.00	<b>Session 4.4</b> Continued	Miledel Quibilan, UP-MSI
12.00-13.30	<i>-Lunch-</i>	
13.30-15.00	<b>Session 4.5</b> Writing the Hazard Story from Past to Future	Glenn Ricci, URI-CRC
15.00-15.30	<i>-Break-</i>	
15.30-17.30	<b>Session 5.1</b> Cases of Vulnerability Assessments	Glenn Ricci, URI-CRC
18.00-21.00	<i>-Dinner at Hotel-</i>	
<b>Day 5 (September 23, Friday) – Vulnerability Assessments</b>		
08.00-08.15	<i>-Daily Review-</i>	
08.15-10.00	<b>Session 5.2</b> Assessing Vulnerability using Low Tech Approaches	Glenn Ricci, URI-CRC
10.00-10.30	<i>-Break-</i>	
10.30-12.00	<b>Session 5.3</b> Higher Tech: Coastal Integrity Assessment (CIA) Tool for Local Governments	Fernando Siringan, UP-MSI
12.00-13.30	<i>-Lunch-</i>	
13.30-15.00	<b>Session 5.4</b> Field Exercises Using the Coastal Integrity Assessment Tool	Fernando Siringan, UP-MSI
15.00-15.30	<i>-Break-</i>	
15.30-15.30	<b>Session 5.4</b> Continued	Fernando Siringan, UP-MSI
18.00-21.00	<i>-Dinner at Hotel-</i>	
<b>Day 6 (September 24, Saturday) – Risk Assessments and Priorities</b>		
08.00-08.15	<i>-Daily Review-</i>	
08.15-10.00	<b>Session 5.5</b> Assessing Vulnerability Using High Tech Approaches	Miledel Quibilan, UP-MSI
10.00-10.30	<i>-Break-</i>	
10.30-12.00	<b>Session 6.1</b> Risk – Putting Vulnerability in perspective	Glenn Ricci, URI-CRC
12.30-13.30	<i>-Lunch-</i>	

Time	Session	Resource Person/ Facilitator
13.30-14.00	<b>Session 6.2</b> Selecting Priority Management Issues	Glenn Ricci, URI-CRC
14.00-15.00	<b>Session 7.1</b> Overview of Coastal Adaptation Options and Strategies	Pam Rubinoff, URI-CRC
15.00-15.30	-Break-	
15.30-17.30	<b>Session 7.1</b> Continued	Pam Rubinoff, URI-CRC
18.00-21.00	-Dinner at Hotel-	
<b>Day 7 (September 25, Sunday) – Adaptation Analysis</b>		
08.00-08.15	-Daily Review-	
08.15-10.00	<b>Session 7.2</b> Adaptations for Coastal Infrastructure	Pam Rubinoff, URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 7.2</b> Continued	Pam Rubinoff, URI-CRC
12.00-13.30	-Lunch-	
13.30-15.00	<b>Session 7.3</b> Adaptations for Natural Coastal Areas	Miledel Quibilan, UP-MSI
15.00-15.30	-Break-	
15.30-17.30	<b>Session 7.3</b> Continued	Miledel Quibilan, UP-MSI
18.00-21.00	-Dinner at Hotel-	
<b>Day 8 (September 26, Monday) – Finalizing Local Early Action Plan for Climate Change</b>		
08.00-08.15	-Daily Review-	
08.15-10.00	<b>Session 7.4</b> Refining Adaptations and Early Actions	Glenn Ricci, URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 8.1</b> Drafting a Team Plan for Moving Forward	Kitty Courtney, USCTI-PI
12.00-13.30	-Lunch-	
13.30-15.00	<b>Session 8.1</b> Continued	Kitty Courtney, USCTI-PI
15.00-15.30	-Break-	
15.00-17.30	<b>Session 8.2</b> Closing and Evaluation	Glenn Ricci, URI-CRC
18.00-21.00	-Dinner at Hotel- Closing Ceremonies	
<b>Day 9 (September 27, Tuesday) – Curriculum Design</b>		
08.00-08.15	Overview of Objectives	
08.15-09.00	<b>Session 4.1</b> Solidifying the National Institutional Arrangements for Climate Change Training	URI-CRC
09.00-10.00	<b>Session 1.1</b> Evaluating the CTI CCA Course Based on the Coral Triangle Context	URI-CRC
10.00-10.30	-Break-	
10.30-11.00	<b>Session 1.2</b> Self-assessment of Training Skills	URI-CRC
11.00-12.00	<b>Session 1.4</b> Adult Learning Theory – The Basics	URI-CRC
12.00-13.30	-Lunch-	
13.30-14.00	<b>Session 1.5</b> Creating Clear Learning Objectives	URI-CRC
14.00-15.00	<b>Session 2.1</b> Designing Interactive Sessions	URI-CRC
15.00-15.30	-Break-	
15.30-16.30	<b>Session 3.1</b> Public Speaking	URI-CRC
15.00-17.30	<b>Session 4.2</b> Establishing Goals and Roles for Revised Course	URI-CRC

Time	Session	Resource Person/ Facilitator
18.00-21.00	-Dinner at Hotel-	
<b>Day 10 (September 28, Wednesday) – Interactive Training Methods</b>		
08.00-08.15	<i>Energizer</i>	
08.15-10.00	<b>Session 1.6</b> Organizing Session Content	URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 2.2</b> Introduction to Facilitation	URI-CRC
12.00-13.30	-Lunch-	
13.30-15.00	<b>Session 3.2</b> Telling Stories	URI-CRC
15.00-15.30	-Break-	
15.30-17.30	<b>Session 4.3</b> Designing Interactive Curriculum	URI-CRC
18.00-21.00	-Dinner at Hotel-	
<b>Day 11 (September 29, Thursday) – Delivery</b>		
08.00-08.15	<i>Energizer</i>	
08.15-10.00	<b>Session 1.7</b> Creating Powerful Visuals	URI-CRC
10.00-10.30	-Break-	
10.30-12.00	<b>Session 3.3</b> Presenting with the Powerpoint/Visuals	URI-CRC
12.00-13.30	-Lunch-	
13.30-15.00	<b>Session 4.4</b> Finalizing Plans for Replication of CTI Course	URI-CRC
15.00-15.30	-Break-	
15.30-17.30	Closing and Evaluation	URI-CRC
18.00-21.00	-Dinner at Hotel-	

## Annex 2: List of Participants

### CTI Climate Change Adaptation for Coastal Communities Course and Training of Trainers

September 19-26, and Sept 27-29, 2011 Port Moresby, Papua New Guinea

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### Annex 3: Site Work Plans

SITE: ALOTAU DISTRICT, MILNE BAY, PAPUA NEW GUINEA				
Early Action: Setting the Stage for CCA				
Activities	Lead/Partners	Start Date	End Date	Funding Source
Networking between the Disaster Office, DEC, DAL, Fisheries, DPLGA, CI, target communities, Radion Milne Bay and Tourism Bureau	Provincial Disaster Office and National Government	Jan 2012	March	National and Provincial Governments and others (private sector)
Adopt the policies into the Provincial Disaster Management Plan	Provincial Disaster Office	Jan 2012	Dec 2012	National and Provincial Governments and others (private sector)
Document Nuakata site and other impacted areas along the coast	Provincial Disaster Office, Environment Office, CI	April 2012	July 2012	CI, Provincial Disaster Office, others
Use documentary files for pre-awareness training and mobilize resources	Provincial Disaster Office, CI, Environment Office, DAL, Tourism	August 2012	October 2012	CI, Provincial Disaster Office, others
Do awareness at target sites (Kiriwina)	Provincial Disaster Office, CI, Environment Office, DAL and Tourism	November 2012	March 2013	CI, Provincial Disaster Office, others
Collect feedback and analyse	Radio Milne Bay, Provincial Disaster Office, Environment Office, CI	April 2013	June 2013	CI, Provincial Disaster Office, others
Establish another MPA and other alternatives like aquaculture	Provincial Disaster Office, Environment Office, CI	July 2013	November 2013	CI, Provincial Disaster Office, others

Monitoring and Evaluation	Provincial Disaster Office, Environment Office, CI	Ongoing	Ongoing	CI, Provincial Disaster Office, others
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**SITE: KIMBE BAY, PAPUA NEW GUINEA**

**Early Action:**

Activities	Lead/Partners	Start Date	End Date	Funding Source
Awareness with key partners and resource people in the community with the Local Level Government (c/o Philip Taupili)	LLG Members, LLM AIC, Youth, Church Leaders	1 <sup>st</sup> Oct 2011	31 <sup>st</sup> Oct 2011	LLG, LMM AIC
Conduct meeting with Hobita (local group) to integrate tools (CCA) with CBPP in Kimbe Bay (c/o Annisah)	TNC	2 <sup>nd</sup> wk Oct (16-21)		TNC
Train and trial in an AOI (c/o Annisah)	TNC	2 <sup>nd</sup> wk Oct (16-21)		TNC
Meet with relevant stakeholders to understand what CCA tools/other tools have been used in the country and document (c/o Annisah)	TNC	November 1 2011	November 30 2011	TNC
Discussions on developing a training guide/video that can be used for planning for our local partners (c/o Annisah)	TNC	November 2011	February 2012	TNC
Implementing process of marine laws to cover coastal resource management for provincial and local level government for effective management plan (c/o Ronald Gumaira)	DEC, NFA UPNG	29 <sup>th</sup> Mar 2012	20 <sup>th</sup> Dec 2012	ADB, CTI NCC-PNG
Include CRM into the Climate Change and Development Policy that is happening now (c/o Emmajil) <ul style="list-style-type: none"> <li>- Use VA to target resource allocation for adaptation funding</li> <li>- Integrate LEAP into PPCR</li> </ul>	OCCD OCCD/PPCR	Now (Sept 26) Tomorrow (September 27)	Feb 2012	OCCD OCCD/ADB

**SITE: ALOTAU DISTRICT, MILNE BAY, PAPUA NEW GUINEA**

**Early Action: Setting the Stage for CCA**

Activities	Lead/Partners	Start	End Date	Funding
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		Date		Source
Networking between the Disaster Office, DEC, DAL, Fisheries, DPLGA, CI, target communities, Radion Milne Bay and Tourism Bureau	Provincial Disaster Office and National Government	Jan 2012	March	National and Provincial Governments and others (private sector)
Adopt the policies into the Provincial Disaster Management Plan	Provincial Disaster Office	Jan 2012	Dec 2012	National and Provincial Governments and others (private sector)
Document Nuakata site and other impacted areas along the coast	Provincial Disaster Office, Environment Office, CI	April 2012	July 2012	CI, Provincial Disaster Office, others
Use documentary files for pre-awareness training and mobilize resources	Provincial Disaster Office, CI, Environment Office, DAL, Tourism	August 2012	October 2012	CI, Provincial Disaster Office, others
Do awareness at target sites (Kiriwina)	Provincial Disaster Office, CI, Environment Office, DAL and Tourism	November 2012	March 2013	CI, Provincial Disaster Office, others
Collect feedback and analyze	Radio Milne Bay, Provincial Disaster Office, Environment Office, CI	April 2013	June 2013	CI, Provincial Disaster Office, others
Establish another MPA and other alternatives like aquaculture	Provincial Disaster Office, Environment Office, CI	July 2013	November 2013	CI, Provincial Disaster Office, others
Monitoring and Evaluation	Provincial Disaster Office, Environment Office, CI	Ongoing	Ongoing	CI, Provincial Disaster Office, others

**SITE: CHIVOKO, CHOISUEL PROVINCE, SOLOMON ISLANDS**

**OBJECTIVES:**

1. ESTABLISH A LEARNING-BY-DOING SITE BY THE END OF THE ACTIVITY
2. CHANGE PEOPLE'S PERCEPTION TOWARD MANGROVE AS WASTELAND

**Early Action: Mangrove replanting as an awareness tool**

Activities	Lead/Partners	Start Date	End Date	Funding Source
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Identify leading agency and funding	TNC	November 2011	November 2011	N/A
Logistic support	TNC/LLCTC	November 2011	March 2012	N/A
Organize people power (pre-awareness, awareness, contemplation)	TNC/LLCTC	April 2012	April 2012	TNC/CTI NCC-SI
Community consultation (intention)	TNC/LLCTC/MECDM/WFC	April 2012	Mid-May 2012	TNC/CTI NCC-SI
Baseline Information (intention)	TNC/LLCTC/MECDM/WFC/ SNR	May 2012	Mid-May 2012	MECDM
Establish nursery materials (trial)	TNC/BSP/Private Organizations	Mid-May 2012	Mid-July 2012	MECDM, BSP, Private Organizations
Mangrove seedlings (trial)	WFC	July 2012	August 2012	WFC, MECDM, TNC
Re-planting (trial)	WFC/SNR/YEP/Chivoko villagers/ TNC	July 2013	July 2013	MECDM, TNC, CTI NCC-SI
Site visitation (telling story)	TNC/SNR/YEP/MECDM	June 2013  November 2013	End of July 2013  December 2013	CTI NCC-SI
Maintenance/monitoring/research (adoption)	LLCFC/SNR/TNC	Continuou s	Continuou s	Community fund
<b>SITE: GIZO INTEGRATION SITES (BABANGA AND SAERAGHI), SOLOMON ISLANDS</b>				
<b>Early Action: Conduct CCA Awareness</b>				
<b>Activities</b>	<b>Lead/Partners</b>	<b>Start Date</b>	<b>End Date</b>	<b>Funding Source</b>
Planning Team meet to plan community visit Babanga and Saeraghi	World Fish, WWF, Roviana Conservation Foundation (RCF) and the Western Province	17 <sup>th</sup> October	17 <sup>th</sup> October	CTSP

Visit Babanga community (initial) and conduct adaptation workshop	World Fish, WWF, Roviana Conservation Foundation (RCF) and the Western Province	18 <sup>th</sup> October	18 <sup>th</sup> October	CTSP
Visit Saeraghi community (initial) and conduct adaptation workshop	World Fish, WWF, Roviana Conservation Foundation (RCF) and the Western Province	20 <sup>th</sup> October	20 <sup>th</sup> October	CTSP

## **Annex 4: Draft Concept Note - National Pool of CCA Trainers**

### **Background**

The US CTI Support Program recently conducted an 8-day Course on Climate Change Adaptation for Coastal Communities and a Training of Trainers course and a 3-day Training of Trainers (ToT) course for select participants from Solomon Islands and Papua New Guinea. The idea of the training is to equip the participants with knowledge, skills and tools on planning and implementation of adaptation strategies to address climate change issues in coastal areas in these two Pacific countries. Part of the objective of this learning event was to develop a national pool of trainers to fill in gaps in priority sites as well as replicate the training program nationally as needed.

A total of 14 participants participated in the ToT. Three represented the Solomon Islands and the other 11 came from Papua New Guinea (PNG). These participants came from various agencies or organizations. In the case of Solomon Islands, the 3 came from UNDP's Youth Environment Development working through the MECDM, Solomon College of Higher Education and the Environment Office of Western Province. The 11 participants representing PNG came from national government agencies (DEC, OCCD, DPLGA), academic institution (UPNG), provincial governments (Environment and Disaster offices) of Manus and Milne Bay and NGO partners. In short, the potential pool of CCA national trainers comes from various agencies and institutions.

Given the diversity of the composition of the potential pool of trainers, there is a need to clarify the terms of reference, mandate, scope, implementation mechanism and budget allocation for the national training team to be formally organized into a national pool. This concept note is an attempt to spell out the operational details as basis for discussion in formalizing the national training pool with the respective NCCs.

### **Terms of Reference (For Discussion)**

Whereas, the NCC is organized and mandated to coordinate national CTI-CFF programs, projects and activities in pursuit of the National Plan of Action (NPOA);

Whereas, one of the components of the NPOA encourages local government and communities to understand, assess and take action on coastal issues related to climate change;

Whereas, one of the activities fully recognized by the NCC to address the issues on climate change in line with the NPOA is the conduct of CCA training course and TOT;

Whereas, NCC underwent a rigorous selection process from multi-agency representatives to identify and develop potential CCA trainers to replicate the course nationally as one of the mechanisms to implement the NPOA's climate change component;

Now therefore, the NCC hereby organizes the National Pool of CCA Trainers (hereunder referred as National Trainers) composed of graduates from the CCA Training of Trainers' Course conducted by the US CTI Support Program.

- 1) Mandate. The National Trainers is mandated to serve as the CCA training team of the NCC that shall provide training and technical assistance services to the provincial/local governments and

coastal communities to address climate change issues. The OCCD/MEDCM (PNG/Solomon Islands) shall serve as the national CCA coordinating unit of the National Trainers.

- 2) Scope. The National Trainers shall have the following tasks and responsibilities:
  - a) Attend regular assessment and planning meeting to review trainings needs and plan training program;
  - b) Attend planning meeting when required/needed to plan for a CCA training course with a designated training team;
  - c) Prepare and submit modules/session plans and relevant materials to be used in the training to the national coordinating unit
  - d) Work with a designated training team to facilitate, conduct or deliver training and technical assistance services;
  - e) Work with the training team to draft a training report (providing for assessment and recommendations) to be submitted to the national CCA coordinating unit
  
- 3) Implementation Mechanism. The NCC through the national CCA coordinating unit (OCCD/MECDM) shall forge a memorandum of agreement (MOA) with agencies and organizations from which the National Trainers belong. The MOA shall specify the inter-agency/organizational cooperation by way of sharing human resources to serve in the National Pool of CCA Trainers.
  
- 4) Budget Allocation. The national CCA coordinating unit (OCCD/MECDM) shall appropriate budget to support the activities of the National Trainers. The utilization of funds shall be subject to the rules and regulations of the government.
  
- 5) Effectivity.

**ina**  
INSTITUTE OF NATIONAL AFFAIRS

**Annual Meeting & Business Breakfast  
Papua New Guinea & Institute of  
National Affairs**

Friday 30<sup>th</sup> September 2011  
07:00a.m.  
Hon. Mr Don Polye, BE (Civil) MBA,  
MIEPNG (Reg) MP  
Minister for Treasury & Finance

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For the AGM, please ensure to **provide** a  
form and return to the Secretariat by  
26<sup>th</sup> September 2011.

**Physiotherapy Clinic**



**"Skilled Hands  
Towards  
Wellness"**

0000

**NATION**

# Meet focuses on climate, coastal areas

TWENTY-four participants from PNG and the Solomon Islands are attending an 11-day regional climate change adaptation for coastal communities workshop at the March Girls Resort in Gaire, Central.

The Office of Climate Change and Development (OCCD), with the endorsement of the PNG Coral Triangle Initiative (CTI) coordinating committee, is hosting the workshop which started on Monday.

It involves an eight-day workshop and a three-day training to share methods and strategies related to coastal adaptation.

The course follows a similar one that 14 CTI representatives attended last year at the Coastal Resources Centre at the University of Rhode Island (CRC).

Each country's delegation consists of mid-level professionals from national and sub-national government, academia and NGOs who play an advisory, technical support or programme design role for planning process and implementation activities in coastal areas.

They include members from across multiple sectors to foster integrated planning mechanisms, specifically natural resources, disaster and lo-



Taylor ... reaffirmed the US government's commitment in helping to protect coastal communities from climate change

cal community planning programmes.

The Coral Triangle Initiative for Coral Reefs, Fisheries and Food Security regional plan of action was launched in May 2009 by the six Coral Triangle countries (Indonesia, Malaysia, PNG, Philippines, Solomon Islands and Timor-Leste).

Officiating at the launching of the first-ever collaborative and international CTI course on climate change adaptation for coastal communities training event was the United States envoy Teddy Taylor.

Taylor told participants that the US gov-

ernment remained committed, as a key Coral Triangle partner, in pursuit of effective community-based adaptation measures and innovative solutions from climate impacts to protect the livelihoods, way of life, and food security of vulnerable coastal communities.

He said the approach taken through multi-lateral cooperation and inclusive engagement of multiple stakeholders facilitated the development of a landmark document, the regional early action plan for climate change adaptation would serve as a collective framework in addressing climate issues in the region.

"This training provides an opportunity for partnership and sharing between the US and international climate science experts from the US National Oceanic and Atmospheric Administration, University of Rhode Island, University of the Philippines, our NGO partners World Wildlife Fund, The Nature Conservancy and Conservation International, and TetraTech ARD," Taylor said.

The US government had signed a US\$21 million (K46.39 million) climate change assistance to the secretariat of Pacific community.

## Namah gives K20,000 to students

ACTING Prime Minister Belden Namah has given K20,000 to West Sepik students attending the Papua New Guinea University of Technol-



Namah said.

He said he had a timber plantation of 187,000ha, which sold about 108,000 cubic metres every year.

"Only recently have

