

Trainer's Project Summaries

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Name of Workshop/Training event: BREEF Marine Conservation Teacher's Training Workshop

Trainer: Leno Davis

Location: Gerace Research Centre, San Salvador, Bahamas

Date: July 13-20, 2011

Highlights or outcomes: Twenty-eight teachers were trained in elements of Reef Resilience, and the curriculum was tied into the Bahamas Ministry of Education curriculum standards so that it can easily be taught by these teachers to their primary through tertiary-level students.

Summary of event: Leno Davis (The Nature Conservancy) led a Reef Resilience training as part of the Marine Conservation Teacher's Training Workshop hosted by the Bahamas Reef Environment Educational Foundation (BREEF). BREEF's goal is to have at least one teacher in every school in the Bahamas undertake the Training Workshop. In this workshop, 28 primary, high school, and tertiary level teachers from the Bahamas came together for a week to learn about the ocean and marine conservation, including coral reef resilience. Teachers received 60 hours of professional development credit as a result of this training, and each teacher received a Reef Resilience Toolkit for use in their classrooms. Each session has the goal of teaching teachers hands-on lesson activities that they can integrate into their classrooms back home. Davis led sessions and interactive discussions on Climate and Corals, Components of Resilience, and Managing for Resilient MPAs.

Full Report: 2011 BREEF TTW Summary Report.doc, Leno Davis Trainer's project.doc

Name of Workshop/Training event: Reef Resilience and Climate Change Workshop

Trainer: Pilar Herrón

Location: Cartagena, Colombia

Date: August 23-24th, 2010

Highlights or outcomes: The workshop trained 22 staff from the Colombian Caribbean coastal region on integrating reef resilience principles into coral reef management, and on identifying and responding to a mass coral bleaching event. A post-workshop assessment found that 100% of participants felt their understanding of coral reef resilience had increased, and all participants thought there was a medium-to-high likelihood that they would use this information in their work.

Summary of event: Staff from National Parks (Natural Park Corals of Rosario and San Bernardo Islands), the National Natural Parks System, and consultants working for the National Natural Park Tayrona attended this two-day training. The first day consisted of presentations and group discussion related to coral bleaching, MPA design, and assessment of bleaching risk. On the second day, participants took part in a field trip which included the identification of bleached corals and coral diseases. This workshop was co-led by Pilar Herrón (The Nature Conservancy) and Valeria Pizarro (University of Jorge Tadeo Lozano).

Full Report: Narrative report_Resilience Workshop Cartagena.pdf

Name of Workshop/Training event: Tobago Coral Reef Resilience Workshop

Trainer: Jahson Alemu

Location: Mt. Irvine Bay Hotel and Golf Club, Tobago

Date: October 26th, 2010

Highlights or outcomes: Twenty participants (including coral reef managers, divers, scientists, tourism, tour operators and recreationalists) from various agencies and institutions from Trinidad and Tobago took part in this one-day workshop. Stakeholders from various agencies committed to generating a bleaching response plan.

Summary of event: Through a participatory process lead by Jahson B. Alemu I and several others, participants learned about coral reef resilience, and discussed policy and management strategies in the context of the Buccoo Reef Marine Park. They also discussed coral bleaching response plans, and representatives from several stakeholder groups committed to formalizing a coral bleaching response plan in 2011. Participants discussed the difficulty of information dissemination, limitations in resources, training, and management constraints for implementing any response plan. However, importantly, participants noted that this workshop was the first time many of the participants had all been in the same physical location and discussed these issues together.

Full Report: Jahson Alemu_Tobago Reef Resilience Workshop Oct 26 2010.pdf

Name of Workshop/Training event: Reef Resilience Training for local Community

Trainer: Nohora Galvis

Location: Capurgan, Choco, Caribbean Colombia

Date: Nov. 29-Dec. 4, 2010

Highlights or outcomes:

Five SCUBA diving Operators and 120 students from the local school underwent trainings with ICRI (*Fundación Iniciativa Colombiana en Pro de los Arrecifes Coralinos*). Dive operators continue to participate in a National bleaching, lionfish sighting, and coral disease alert system, and there has been increase community attention to the importance of coral reefs.

Summary of event:

5 SCUBA diving operators were trained in the RENOBOS protocol (*Red Nacional de Operadores de Buceo que reportan Observaciones Submarinas*). This protocol transmits alerts about coral diseases, bleaching or lionfish sightings to the National and local authorities as well to the community. Additionally, members of the community (environmental police, hotel managers, fishers, and community associations) attended talks about ecotourism and fishing. Finally, 120 students and students at a local school learned about lionfish meat (the talk was intended to demystify the toxic effect of the meat) and were given a lionfish tasting.

Full Report:

http://icri-colombia.blogspot.com/2010_11_01_archive.html

Name of Workshop/Training event: US Virgin Islands (USVI) Reef Resilience Program

Trainer: Aaron Hutchins and Kemit Amon-Lewis

Location: USVI

Date: ongoing

Highlights or outcomes: The US Virgin Islands Reef Resilience Program (VIRRP) was created after the USVI participation in the Training of Trainers (TOT) workshop in the Caribbean in June 2010. The objective of the VIRRP is to conserve coral reefs in the US Virgin Islands through:

1. The identification of resilient reefs in the USVI;
2. The development of a USVI disturbance response plan; and
3. The creation of an awareness campaign to help reduce anthropogenic impacts

Summary: The VIRRP Steering Committee was organized to guide the planning and implementation activities of the US Virgin Islands Reef Resilience Program. The members are coral reef scientists and/or managers that have worked in the US Virgin Islands on a number of projects ranging from long-term monitoring of USVI coral reefs to Marine Protected Area (MPA) design and management. The steering committee members include:

Kemit-Amon Lewis, The Nature Conservancy, Chairperson
Aaron Hutchins, The Nature Conservancy
Jeanne Brown, The Nature Conservancy
Paige Rothenburger, DPNR-CZM/USVI Coral Reef Initiative Coordinator
Dr. Tyler Smith, University of the Virgin Islands
Dr. Marilyn Brandt, University of the Virgin Islands
Marcia Taylor, UVI-Virgin Islands Marine Advisory Service
January Murray, DPNR Division of Fish and Wildlife
Rafe Boulon, VI National Park Service
William Jeff Miller, VI National Park Service
Dr. Caroline Rogers, US Geological Survey
Ian Lundgren, VI National Park Service

This group continues to inform policy and management decisions in the USVI. The Committee drafted a Virgin Islands Reef Resilience Plan, as well as a Mass Coral Bleaching Response/Monitoring Plan. The VIRR steering committee gathers USVI Coral Reef managers and scientists in an organized forum. They have gathered regional partners working on coral reef management to share data, and the steering committee hosts annual VIRR workshops for scientists, managers, and policy-makers in the region.

Full Report: None available.

Name of Workshop/Training event: Reef Resilience Training Workshop

Trainer: Yashika Nand

Location: Suva, Fiji

Date: February 8-9, 2012

Highlights or outcomes: Based on pre- and post- training assessments, 21 participants gained a greater understanding of the concept of reef resilience. The participants also participated in a MPA Design activity based on resilience principles, and created a coral bleaching response plan.

Summary of event: Yashika Nand, in collaboration with the Wildlife Conservation Society (WCS) Fiji, led a two-day reef resilience training workshop for partners of the Fiji Locally Managed Marine Area network (FLMMA), including representatives from communities and conservation organizations. The goal was to introduce 21 reef managers to the concept of adaptive management using the principles of reef resilience. The workshop focused on low-technology, low-cost community-based techniques to identify resilient reefs and help communities protect them within a network of MPAs. Emphasis was placed on the components of reef resilience and their use in the design of resilient MPAs as a better management strategy for facing climate change impacts. The goal is not to replace existing management strategies, but to help reef managers adapt their management plans as new information becomes available.

One of the most important outcomes of the reef resilience training workshop was the community based bleaching response plan that was developed during one of the group activities which could be adapted to most of the communities within Fiji. The bleaching response plan is very simple and requires minimum expertise and was developed based on four major components: (1) Coral health and impact assessment; (2) Early warning systems; (3) a Management action plan; and (4) a Socio-economic implication plan. The other achievement of the workshop was the enthusiasm participants generated to implement reef resilience principles in different parts of Fiji. Most of the community representatives went back to their sites with an implementation plan that includes updating communities about impacts of climate change, the concepts of reef resilience and resilient MPA design as a priority.

Full Report: R2 report_Fiji.pdf

Name of Workshop/Training event: Reef Resiliency Workshop and Training: Building Resilience into Coral Reef Management in American Samoa

Trainer: Fatima Sauafea-Le'au

Location: Utulei, American Samoa

Date: June 18-20, 2012

Highlights or outcomes: Nine regional coral reef experts gave presentations to participants from American Samoa, who gained awareness of reef resilience and the Assessment and Rapid Reef Response (ARRR) Plan. Local and regional organizations became more engaged in assisting with implementation of the ARRR Plan. Some participants developed outreach tools that were used as part of an environmental camp for students.

Summary of event: This three-day workshop and training gathered stakeholder groups from American Samoa to participate in a series of presentations and discussions about climate change, the importance of coral reefs and reef resilience, and the implementation of a local Assessment and Rapid Reef Response Plan. Coral Reef experts from regional and local governmental and non-governmental organizations gave presentations and led small-group discussions. The workshop culminated in a training for 16 participants that focused on public outreach and awareness.

Full Report: Reef Resiliency Workshop Summary Report.docx

Name of Workshop/Training event: Reef Resilience Workshops

Trainers: Darla White (Hawaii Department of Land and Natural Resources) and Dr. Eric Conklin (The Nature Conservancy)

Locations and Dates:

Hawaii Division of Aquatic Resources (DAR), Oahu, July 2, 3 and 5, 2012

Hawaii DAR, Kona, April 3-5, 2012

Hawaii DAR, Maui, December 11, 2011

Maui Nui Marine Resource Council, Maui, April 28-29, 2012

Coral Reef Ecosystem Division, Planned for Fall 2012

Highlights or outcomes: Darla White, Dr. Eric Conklin, and several other State and The Nature Conservancy experts led 4 reef resilience workshops for a diverse range of participants on 3 islands in the State of Hawaii.

Summary of event: Reef Resilience trainings were targeted at three different audiences; state marine managers, community members involved in marine resource management and scientists with the goal to provide knowledge and tools to better manage coral reefs for the future as well as to better align state and community management goals. The workshops focused on teaching the principles of resilience, providing information about Hawaii's Early Warning Systems and Bleaching Response plans and how to incorporate resilience into management. Participants were surveyed before and after the trainings to determine effectiveness of the trainings. Forty four State marine resource managers from Oahu (30), Maui (7) and Hawaii (7) island participated in trainings. Nineteen members of the Maui Nui Marine Resource Management Council, a community council on the island of Maui also received the training. A fifth training is planned for members of the NOAA Coral Reef Ecosystem Division in the Fall of 2012.

Full Report: Training Implementation TOT Reef Resilience Proposal

Name of Workshop/Training event: Commonwealth of Northern Marianas Reef Resiliency Training

Trainer: Steven Johnson, Steven McKagan

Location: Saipan, Northern Mariana Islands, US

Date: 8/5/2011

Highlights or outcomes:

Participants were introduced to the key concepts of climate change, coral physiology and bleaching and resilience. They learned about the CoralWatch tool and how to use it, and conducted mock coral reef surveys.

Summary of event:

The CNMI Reef Resiliency Training, a project funded by The Nature Conservancy and the National Oceanic and Atmospheric Administration's Pacific Islands Regional Office (NOAA-PIRO), was held as a component of the CNMI's bleaching response plan on August 5, 2011. A local non-exclusive professional group, Asia-Pacific Academy of Science, Education, and Environmental Management assisted project leads Steven Johnson (CNMI Division of Environmental Quality) and Steve McKagan (NOAA-PIRO), in hosting the training. The training's main objective was to develop a community-based component to the early warning system of the bleaching response plan by implementing the use of the CoralWatch toolkit to help monitor the extent of coral bleaching.

- The CoralWatch training hosted a total of 59 participants with assistance from 13 coaches.
- Training session began with introduction and lecture on the basics of climate change given by Steve McKagan;
- Next lecture was given by Steven Johnson on coral biology, reef ecology, bleaching and reef resilience principals;
- Video to introduce CoralWatch and it's mission was played
- Breakout Session 1: trainees did a mock CoralWatch survey with photos and toolkit
- Breakout Session 2: trainees did a mock data entry with print outs of the CoralWatch website.

Full Report:

Name of Workshop/Training event: Capacity Building Workshop for Reef Resilience

Trainer: Glenn Edney, on behalf of Kym Lincolne

Location: Lugainville, Espiritu Santo, Vanuatu

Date: August 16-17, 2013

Highlights or outcomes: One stakeholder is working with a local village and school to set aside a coral restoration area adjacent to an existing conservation area. He will work with OceanWatch to implement this project.

Additionally, a working committee has been formed to further the concept of developing a network approach to marine protection in the area.

Summary of event: This two-day workshop trained 9 local stakeholders representing the Fisheries division, local schools, and the tourism industry on Reef Resilience. They learned the basics of coral reef ecology, as well as discussed local threats to healthy reef ecosystems.

Full Report:

Lugainville reef resilience report.pdf

Name of Workshop/Training event: Aceh Reef Resilience Capacity Building Program

Trainer: Fikri Firmansyah

Location: Aceh, Indonesia

Date: February 18, 20, 21, and 23, 2013

Highlights or outcomes: Twenty-six participants from the Ocean Diving Club at Syiah Kuala University participated in the workshop, leading to increased understanding of reef resilience principles and plans to incorporate reef resilience into their scientific diving activities.

Summary of event: Twenty-six members or alumni of the Ocean Diving Club, a scientific diving club at Syiah Kuala University in Aceh, Indonesia, were trained in reef resilience principles. Participants learned about the impacts of climate change on coral reefs, discussed principles of reef resilience, and learned about resilient MPAs. The final session of the training consisted of a snorkeling trip to Aramanyang Reef, where participants participated in a hands-on reef resilience training using the local reef as a case study. Prior to the training, none of the participants were aware of reef resilience principles, but an evaluation showed that most gained new knowledge from the training, and plan to incorporate reef resilience into their scientific diving activities.

Full Report: Aceh RR Capacity Building Final Report.pdf

Name of Workshop/Training event: Reef Resilience Workshop in Fenualoa Island, Solomon Islands

Trainer: Chris Bone, OceansWatch

Location: Fenualoa Island, Solomon Islands

Date: September, 2012

Highlights or outcomes: Every village on Fenualoa now has people who understand climate change, and reef resilience and a community bleaching plan.

Summary of event: This was the final workshop for 37 “Reef Guardians” from 6 villages in this region. Participants were from community conservation committees. Reef Guardians are trained by OceansWatch to monitor the health of their reef through a combination of very simple indicator species surveys and qualitative free choice profiling. This training shared information about climate change and reef resilience to increase the knowledge of the Reef Guardians. It included 2 days of training on reef ecology, including bleaching and 2-3 days of in-water training.

Full Report: Chris Bone trainer report.docx

Name of Workshop/Training event: Facilitating Resilience in Reef Management in Con Dao MPA, Vietnam

Trainer: Chu The Cuong (Institute of Marine Environment and Resources, Vietnam Academy of Science and Technology)

Location: Con Dao Island, Baria-Vungtau province, Vietnam

Date: Nov. 26, 2012

Highlights or outcomes:

Prior to the workshop, only 40% of participants were aware of the impacts of climate change on the marine environment. In a post-workshop evaluation, 100% of participants felt they knew how to minimize the impacts of climate change on coral reefs.

All participants were interested in participating in an early bleaching warning program. A working group (including volunteers, local fishermen and diving tour guides) was set up to collect information on potential bleaching events.

Summary of event:

31 participants from Con Dao Island, including MPA board members, rangers, dive tour operators, and key community members, participated in a workshop on climate change and impacts on coral reef health. Speakers included representatives from the Con Dao Management Board and the Institute of Marine Environment. Participants heard presentations on the current status of the park, climate change science, impacts of climate change on coral reefs and coral reef resilience, as well as a discussion of a bleaching monitoring and response plan.

Full Report: Training Workshop Report Vietnam.doc

Name of Workshop/Training event: Integrating Reef Resilience Principles into Ridges to Reef Conservation Planning for Manus Province

Trainer: Annisah Sapul

Location: The Mbunai community in the Nali Sopat Penabu Local Level Government area

Date: July 15, 2012

Highlights or outcomes: This workshop introduced 27 local leaders to the concept of resilience so that they can effectively contribute to the Local Integrated Development Plans which are a part of the Manus Ridges to Reef Conservation plans. These local leaders hope to collaborate with mainland communities in order to develop more effective management plans. A further workshop is planned to raise awareness for other local and provincial level partners.

Summary of event: Annisah Sapul of The Nature Conservancy and the Manus Environment Community Conservation Network led a half-day workshop at the Mbunai community. Twenty-seven participants representing Community-based organizations from three Local Level government areas in Manus attended the workshop. They learned about the principles of resilience, discussed strategies to deal with threats in their marine areas, and mapped these strategies on community maps. Participants discussed the importance of protected areas for dealing with threats to their coastal areas, and hope to collaborate with mainland communities to develop better management plans.

Full Report: Trainer's Project report Narrative PNG.pdf

Name of Workshop/Training event: Inner Lamon Bay Reef Resilience Training Workshop

Trainer: Daniel Tan

Location: Atimonan, Quezon, Philippines

Date: December 4-6, 2012

Highlights or outcomes: The MFAMRC of Atimonan is now able to conduct their own monitoring and assessment in their fish sanctuary and artificial reefs. The monitoring is conducted for both law enforcement purposes as well as monitoring for resilience. The MFAMRC received monitoring equipment (underwater camera, fins, masks and snorkels, and life vests) to assist with their efforts. Additionally, they are better equipped to assess the impacts of a local processing plant on the environment as the building is constructed and becomes operational. Two additional towns have requested the training, and the region hopes to establish a Coral Watch network in the area.

Summary of event: Local divers from the Municipal Fisheries and Aquatic Resource Management Council (MFAMRC) of Atimonan, Quezon learned how to document and gather data for monitoring, assessment, and law enforcement. The goal is to build the capacity of Atimonan to be able to conduct their own assessments in their fish sanctuary and artificial reefs. They participated in a three day training, including the basics of climate change, reef resilience, and community-based monitoring, and discussed the potential impacts of a nearby construction project on their fish sanctuary.

Full Report: Trainers Project Report Atimonan Training final.doc

Name of Workshop/Training event: Reef Resilience and Coral Disease Workshop

Trainer: Ofri Johan, Reef Watch Indonesia

Location: Seribu Islands National Park, Indonesia

Date: February 25-28, 2013

Highlights or outcomes: The training at this workshop developed a network of 18 responders who will communicate and collaborate in response to coral disease outbreaks in the Seribu Islands. All participants learned about reef resilience and were trained in coral reef transect methods and learned to identify coral, fish, and other benthic species.

Summary of event: Six Instructors from Reef Watch Indonesia and local Universities trained 18 participants from local schools and NGOs, and staff at the Marine National Park. In this 3-day workshop, participants learned about coral disease and reef resilience using Seribu Island as a case study and learned how to do snorkeling transects to identify coral species and coral diseases. The Marine National Park staff already conduct an annual survey of the coral condition around the Seribu Islands, and information and methods taught in this workshop directly contribute to data gathering in their work. In an evaluation, 100% of participants agreed that they learned something useful, found the workshop interesting, and a majority agreed that the knowledge gained will help them in their work.

Full Report: Workshop of Reef Resilience and Coral Disease Report_Indonesia_Seribu.pdf

Name of Workshop/Training event: Developing Best Practices for community based monitoring of key herbivores in coral reef ecosystem.

Trainer: Derta Prabuning

Location: Bali, Indonesia

Date: May 21, 2013

Highlights or outcomes: A “Best Practices for Key Herbivore Monitoring” protocol was developed with the stakeholders, and produced in English and Bahasa Indonesia. This protocol was implemented at two sites, and Reef Check plans to expand beyond this pilot project. This has led to baseline data on herbivorous fish in these regions. Additionally, it led to an increased understanding of monitoring plans and will be implemented into LMMAs management plans in other sites.

Summary of event: A two-day training was held with stakeholders from local LMMAs, fishermen, dive centers, academia, and government agencies. They learned about the impacts of climate change on coral reefs, reef resilience, and monitoring systems. Using the stakeholders’ input, Reef Check developed a key herbivore monitoring protocol. They then worked with two sites (Buleleng and Karangasem) to implement the new herbivore monitoring protocols into their existing community-based monitoring program.

Full Report:

TP Final Report_Derta Prabuning_Bali.docx

Name of Workshop/Training event: Integrating coral reef resilience principles into MPA design for five sites in Madagascar

Trainer: Bemahafaly Randriamanantsoa

Location: Maroantsetra, NE Madagascar

Date: November 6th and 7th, 2013

Highlights or outcomes:

- An informal committee was established to monitor coral reef during bleaching events (composed of MPA Managers, tourist operator and leaders of communities)
- Discussion of exchanging information/knowledge on coral reef resilience using the cellphone and local radio to reach communities
- Revised spatial management plans considering the resilience parameters

Summary of event:

25 participants from the Wildlife Conservation Society and key representatives from three regions of Madagascar (Soarike, Nosy Antafana, Masoala and Ankarea/Ankivonjy) attended this two-day workshop. The first day of the workshop was a series of presentations on reef resilience and implementing resilience in MPA design. The second day consisted of a field trip to a local site to look for bleaching and discuss coral reef resilience. No coral bleaching was observed during the field trip, but a local coral disease outbreak led to the opportunity to discuss coral diseases.

Stakeholders roles included MPA managers and LMMA Fisherman leaders, WCS field agents, and tourist operators. Participants learned more about the importance of building resilience into coral reef management, and formed a local committee to monitor coral bleaching. The committee hopes to organize an annual meeting to discuss their efforts and revise their approach to coral reef conservation. Some next steps include developing a way to share information about coral reefs and reef resilience using cellphone, local radio, and local newsletters.

Full Report:

Report on resilience training in Maroantsetra.docx

Name of Workshop/Training event: Grouper Spawning Aggregation Site Monitoring

Trainer: Yoosuf Rilwan, Marine Research Center

Location: Maldives

Date: Ongoing, began in October 2013

Highlights or outcomes:

A Grouper fishery management plan has been established, and 5 sites from 5 atolls have been declared protected as these are five potential spawning sites for grouper. In order to extend the period of protection beyond 3 years, the Marine Research Center (MRC) needs to visually verify the presence of spawning grouper at the sites. These sites will be closed for period of three years and the results of the monitoring may extend the closure period. To monitor the recently declared 5 no-take zones for Grouper spawning aggregation, MRC (and partners) use GoPro underwater cameras in the collection of data. 5 individuals were trained in the use of the cameras.

The data collected will be used for extending the protection period for these sites and used to manage the Grouper Fishery in the Maldives.

Summary of event:

The first report from the use of the GoPro cameras found a limited number of groupers at one of the five sites (Aligau, October 2013). Each site will be monitored semi-annually, and this report will be updated upon receipt of MRC's field trip reports.

Full Report:

Field Trip Reports, available upon request.

Name of Workshop/Training event: Communicating Reef Resilience in the Lakshadweep Islands

Trainer: Vineeta Hoon, CARESS (Centre for Action Research on Environment Science and Society)

Location: Minicoy, Lakshadweep Islands, India

Date: December 18-24, 2013

Highlights or outcomes:

This training resulted in a variety of outputs:

- A teacher's activity toolkit on communicating Reef Resilience. (*Available upon request.*)
- Posters (by students) on the importance of Herbivores and Coral diversity
- A play (written by students) using hand made puppets to show the competition between macro algae and corals.
- A letter written by students to the Lakshadweep administrator about the status of corals in Minicoy and explaining the importance of herbivores, asking him to pass a resolution to protect herbivores.
- Presentation for the Navy and coast guard station on the island.
- Meeting with Fishermen to discuss resilience factors and to note changes on the map, marking areas for protection.
- Fishermen wrote a letter to the Lakshadweep administrator to declare Minicoy an eco-friendly fishing island where only pole and line fishing is allowed, banning long line, drift net and purse seining in the open sea within a 12-mile radius around the island.

Summary of event:

This project was carried out between December 18th and 25th, 2013, with financial support from the Nature Conservancy and logistical support of the Department of Science and Technology and Malkiu Development society. The concept and activities were developed by CARESS in order to address the need for a communication and outreach program to protect Coastal and Marine ecosystems and explain Reef Resilience. The trainings, workshops, and activities reached a total of 253 individuals, including teachers, students, fishers, Navy staff, local NGO staff, and community members.

Students in years 8, 9, and 11 participated in a variety of activities, including a field trip and letter writing campaign, and teachers were given a reef resilience toolkit curriculum. Local fishermen participated in a workshop on reef resilience, focusing on herbivore protection and fishing methods. This resulted in renewed interest in obtaining governmental support in the creation of more strict fishing regulations. CARESS presented a talk at the Navy Campus on the island on reef resilience for Naval Officers and students.

Next steps for CARESS' work on the island of Minicoy include ongoing communication with the

community, and a continuation of reef resilience programs so that all schools on all islands in Lakshadweep are reached. Additionally, CARESS plans to conduct more awareness programs to include different strata of the community. The local school plans to start a reef club for students. Finally, there is strong interest on the part of the fisherman to start a LMMA in Minicoy. CARESS intends to support the formation of this LMMA.

Full Report: TrainersProjectFinalReport caress part1.pdf

Name of Workshop/Training event: Bagamoyo District Reef Resilience and Climate Change Impacts Awareness Raising Training Workshop

Trainer: Jairos Mahenge,
Tanzania Coastal Management Partnership

Location: Bagamoyo, Tanzania

Date: 21st December 2013

Highlights or outcomes:

The Central Coordinating Committee of local fisheries management expressed commitment towards participating fully in conservation initiatives, and requested further training and the support of local authorities.

Summary of event:

28 coastal fisher folks attended this one-day trainings as community representatives from seven shoreline villages. The training increased their knowledge of coral reef conservation, which will support future planning management strategies at a local level. This will also aid in minimizing coral reef degradation and ensuring reef resilience for sustainable fisheries. Next steps include obtaining cooperation of the district authority, community and civil societies to ensure enhancement of reef resilience so that fisheries and coral reefs can support community development. The trainer was asked to provide any mentorship that may be required by the district, NGOs or the community members.

Full Report: Final_Report_Trainers_Project_Jairos_Mahenge.doc

Name of Workshop/Training event: Reef Resilience & Bleaching Monitoring in Zanzibar: Stakeholder workshop, design, and implementation training

Trainer: Ulli Kloiber, Chumbe Island Coral Park

Location: Zanzibar, Tanzania

Date: January 21-23, 2014

Highlights or outcomes:

Increased knowledge about reef resilience amongst all stakeholders (including local MPA managers, coral reef researchers and dive operators)

All stakeholders electronically equipped with comprehensive workshop material and trained to be a trainer in their sector

Development of a network of stakeholders to share ideas and inspire action that will lead to more effective long-term coral reef management in Zanzibar

Raising awareness of the importance of a bleaching monitoring and response plan for Zanzibar

Collaborative discussions and written questionnaires conducted to initiate the development of a bleaching monitoring and response plan for Zanzibar

Summary of event:

Ulli Kloiber (Chumbe Island Coral Park) led a 3-day Reef Resilience and Bleaching Monitoring workshop in Zanzibar which provided a unique opportunity for Zanzibar's coral reef managers, marine researchers and dive operators to learn and share ideas about effective long-term coral reef management. The training content was prepared under the supervision of Dr. David Obura, a coral reef resilience expert from CORDIO (Coastal Oceans Research and Development in the Indian Ocean), and delivered together with guest speaker January Ndagla, Research Warden from the Tanga Coelacanth Marine Park who provided additional in depth field knowledge. Through a collaborative and interactive approach this stakeholder training helped 10 participants from various sectors to increase their knowledge and awareness about reef resilience, climate change and early warning systems, to implement reef resilience concepts in the field, and to be able to prepare for, monitor and respond to future bleaching events in the Western Indian Ocean region

Full Report:

Ulli Kloiber_Trainer's project final report.pdf

Name of Workshop/Training event: Communication strategy for ongoing degradation of coral reefs at Mafia Island Marine Park

Trainer: Haji Mahingika, Marine Parks and Reserves Tanzania

Location: Chole Island, Miburani Village, Mafia Island Marine Park, Tanzania

Date: February 11 and 12, 2014

Highlights or outcomes:

Participants provided recommendations to the Park for improving enforcement of fishing regulations, and increased their understanding of coral reef conservation. Using “secret voting”, participants were able to honestly discuss the illegal fishing issues with Park boundaries.

Summary of event:

35 representatives from 7 villages attended this workshop, which discussed aspects of coral reef health, climate change, fisheries (and destructive fishing practices), and fisheries management at Mafia Island Marine Park. Representatives were fisher folk from the region, and gained an understanding of how destructive fishing methods (dynamite, seine net fishing) were negatively impacting the reef. One main topic of interest was how to improve the Park’s management and enforcement to curb illegal fishers and fishing methods.

Full Report:

Project Final Report for Mafia Island.docx