Cameroon Mangrove & Wetlands Conservation Network







Six-monthly Information Bulletin

To Educate and Inform Cameroonians on Mangroves and Wetlands











Our Partners



Cameroon Mangrove & Wetlands Conservation Network (CMN) - network of over 40 active grassroots national NGOs, CBOs and experts involved in sustainable mangrove, coastal area and wetlands management issues in Cameroon within a wider regional network-African Mangrove Network (AMN) based in Dakar Senegal. CMN secretariat is hosted by Cameroon Wildlife Conservation Society (CWCS) at Mouanko (National Coordination) and Cameroon Ecology (CAMECO) (Secretary General). Matanda is the coastal parlance for mangroves. Matanda News is a six monthly newsletter of CMN activities and partners.

Editorial

Nearly a decade activities on mangroves metamorphoses CMN into Cameroon Mangrove & Wetlands Conservation Network at October 10-11 Akonolinga Conference



Cameroon civil society, conservation experts, private sector operators, relevant government technical services of environment, nature protection and forestry and other well wishers during the historic formative workshop on the 25 January, 2005 at Edea decided to form an umbrella organization called Cameroon Mangrove Network (CMN). This was to enable them channel efforts, energies and resources towards sustainable management of mangroves and coastal wetlands in Cameroon in order to stop further destruction and degradation to mangroves and coastal wetlands in the country to protect livelihoods of over 30% of country population living within the

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Matanda News.

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Naturskyddsföreningen International Union for the Conservation of Nature (IUCN) Netherlands Mangrove Action Project (MAP) coastal areas.

CMN has since then been actively involved in joint efforts working with local communities and other stakeholders to protect mangrove and coastal wetlands. Having also made a round tour of all Cameroon mangrove blocks to collectively appreciate on-the-ground problems through its executive committee meetings and

conferences from Edea (2005), Douala (2006), Kribi (2006), Tiko (2006), Ekondo Titi (2007), Mouanko (2007), Campo (2008) to Buea (2009) and a historic coastal forum and pan African symposium on mangrove and climate change in 2010 n Buea and Douala respectively then Mangrove and REDD symposium in October 2012 in Douala. Our activities on



mangrove resources assessments and monitoring, mangrove replanting, efficient fuel wood energy use technologies through the establishment of efficient cook and fish smoking stoves, the development of local platforms for policy influence and scientific research are quite significant achievements.

It was then clear from the meeting at Akonolinga of 10 -11 October 2013 that the network needed to spread its tentacles to embrace wetlands management challenges in the country that will take on board all wetlands types including marine & coastal, inland and artificial. The 4th Round Table was organized in collaboration with the Ministry of Forestry and Wildlife (Department of Wildlife and Protected Areas under the auspices of Wetlands International Africa Programme under the theme "Water birds as indicators of wetlands: International Methods of counting & monitoring with national action plan". The event was blessed by visits to the Upper Nyong flood plain covering over 500 000 ha being the second largest inland wetlands after Lake Chad and technical presentations on the theme by key national experts. Participants agreed that though the network changes its name to Cameroon Mangrove and Wetlands Conservation Network, the acronym CMN be still maintained.

The most challenging task ahead is to start an ever forward march towards the production of a national policy for wetlands in Cameroon which should embrace all types of wetlands facing serious threats from loss and degradation from unsustainable use and ignorance of their values and vital ecosystem services. CMN cannot pretend to do all these alone but needs the support of every one having a stake in mangroves and wetlands.

Dr Gordon Ajonina

Challenges and perspectives of Reduced Impact Logging techniques in mangrove ecosystems: Case study research on Cameroon mangrove estuary

or some Conventional (CL) practices have been and tremendous results and applications; none has ever Antario, Canada; University going on in forest harvesting proven to be very successful been done on the mangrove of Dschang for centuries and have been in proven to forests destructive and the general environment. The use of **Impact** Logging Reduced (RIL) a modern technique introduced couple а decades ago is considered a possible solution to this of unsustained problem wood harvesting. RIL is an intensively planned and controlled implementation of timber harvesting operations trained conducted workers to minimize environmental forest stands, communities considered and soils. RIL is viewed as option for SFM as compared enormous part of a holistic approach to to the regular CL technique fighting forestry. According to Pulkki traditionally Sustainable Management(SFM) is stand impacts reduced using RIL eventually presents a good possible.

Management (BMP). well-developed temperate forests. (selection) cutting in tropical advocate forests. applied

now forests in the world and has 380 articles published up to Mr Logging provided very much management and it is being enough for this fragile but a joint research initiative on



the applied to areas where it has mangrove а better RIL as practiced and general.

SFM certification is not yet despite the continuous over- mangroves Practices from Lakehead University within in Thunderbay to Canada, prominent RIL of been declared that within their Professor

holds brighter on not yet been introduced. It is prospects for application of especially in capacity climate change by through global mechanisms 2004, a good step towards logging contractors. These such as REDD and CDM as permanent Forest practices have been found it is known to store up to (PSP) network established that to be more destructive to the 80% of its carbon in the by environmental and residual environment, the residual below ground components regularly re-measured once much trees and the ecosystems in which sharply contrasts the every two years to gauze upland forests which store mangrove less than 5% carbon in the ecosystem option in areas where full The unfortunate thing is that soil. This means that when dynamics. soils degradation disturbed they release very essentially and rapid disappearance of great quantities of carbon monitoring RIL is not a new concept as our rare and very fragile dioxide into the atmosphere restoration within the PSP it has been practiced now for mangrove ecosystems, RIL than upland forest soils thus network decades mostly in most has in no aspect been enhancing their additionality application of RIL and CL parts of the tropical forest. It applied in them. According criterion for any of such practices is an application of Best to Professor Reino Pulkki, carbon project development mangrove Antario, ecosystem.

has It is on this back drop that Reino. Dr. to many tropical current data base for almost Ajonina, Prof Tchamba and

Bambot of Lakehead marvelous present about RIL and it University terms of sustainable ecosystem. This is not good respectively are carrying out encouraged to be equally important ecosystem. Yet RIL within the mangrove ecosystems with reference to the mangroves of the Cameroon Estuary.

The inception part of the

research took place in June 2013 with the selection and 10 training of some mangrove logging contractors **RIL** on **CWCS** techniques at premises in Mouanko prior to the preliminary survey for selection of suitable pilot sites for RIL implementation. The RIL research work was designed to draw heavily and to be integrated into the 15 0.1ha CWCS 2002 biomass and regeneration The October the are phase work will focus on mangrove after five sites.

> By Bambot Moïse(1), Martin Tchamba(1) & Gordon Ajonina(2) (1)Department of Forestry, University of Dschang (2)CWCS

INTERNATIONAL WORKSHOP ON Central African Mangroves and REDD+ held on the 5-6 December 2013 in Douala

The United Nations the Environment (UNEP) in with the Wetlands sector. Mangrove & Network unique Conservation (RCM) under the auspices provide many of the Cameroon Wildlife benefits Conservation from Douala 5 to December 2013. international workshop on their

coastal area Programme Cameroon, the Ministries deforestation of mangroves collaboration of Forestry, MINEPDED, will likely jeopardize the Cameroon MINDAF and the private sustainability Mangroves ecosystems and Society ecosystem services to the there (CWCS) and the University people. They are spawning legislation of Douala organized in grounds for fish resources, protection of this 6 protection against coastal and sensitive habitat and an erosion, storms ... With ecosystem. canopy and root

of occupation and this are ecosystem. Areas that decimated in Cameroon economic are estimated at nearly other 3,000 ha per year, while is no specific for fragile



allow the mangrove continue to produce vital its ecosystem services (climate regulation, supply wood and non-wood forest products, support ecological processes socio-cultural), the Institute Fisheries Science, University

mangroves Douala Yabassi and RCM this workshop the sub-region thus sensitize authorities the international change. institutions to develop the protection of enhancement of these within 90% REDD mechanisms.

> By Dr Ajonina Gordon **National Coordinator, CWCS National Coordinator, CMN**

Mangroves and Reduction system, **Emissions** due Deforestation Degradation (REDD+) in from Africa. and Central

brought climate workshop countries from Central the mangroves of Africa (Cameroon, Gabon, mangrove Republic Democratic Congo. Congo) elsewhere Kenya, England, various except Italy, international organizations (reproduction) (FAO, UNDP, UNEP) and possible only municipal councils within Therefore,

sequester through to contribute to and huge amounts of carbon presented research results industrial activities in deforestation ameliorating the impact of and together thirty participants The natural regeneration strategies and mechanisms with capacity through cuttings of for species main (Rhizophora), ecosystems of which represents and along the coast of Central is impossible, USA, Africa, propagules by which with trees NGOs (WWF, IUCN, GIZ), aged at least ten years. continuous

MINEPDED committed to improve environmental information management for MEA implementation in Cameroon

The Global Environment Facility (GEF) has approved a Project Preparatory Grant (PPG) for Cameroon in order to produce a project document for the concept note entitled "Developping a core capacity for MEA implementation in Cameroon" under the guidance of the United Nations Environment Program (UNEP), the approved concept note was developed by the Ministry Environment, Nature Protection and Sustainable Development (MINEPDED) working in close collaboration with its national partners like CWCS, CAMECO and OPED one of the cofinancers of the project and also key implementation partners in the **GEF-FAO** Cameroon Mangrove Project.

The project aims to address the core capacity gaps in order assist Cameroon implement its environmental commitments as a follow-up to the National Capacity Self Assessment (NCSA) undertaken from July 2004 to September 2007. This process will contribute to strengthening institutional capacity addressing institutional gaps at various levels which have impeded Multilateral Environmental Agreements (MEA) implementation and by helping to improve stakeholder capacities to strengthen national financing mechanisms

and mobilize sustainable funding for MEA implementation.

The project is designed to enhance synergies to meet commitments under the international Convention. Therefore it seeks to enhance policy coordination and to harmonize policv cooperation. interventions from different ministries and highlighting benefits for sustainability goals, to strengthen coordination and cooperation among focal points, national committees. non-governmental to that stakeholders. and ensure proposed amendments to legislative, regulatory and policy frameworks yield multiple benefits for MEA implementation. By investing in Cameroon's information knowledge management and infrastructure, and by strengthening the institutional framework and its capacity to data and integrate interpret project environmental information in development and policy processes, the will contribute to solid project а foundation for environmental management in Cameroon, that is, the environmental to diagnose issues and to develop preventive or mitigative measures accordingly. These will be achieved through the following three components: Tools for improved environmental information management: Institutional arrangements coordination for MEA implementation; Build capacity of actors to strengthen sustainable financing mechanisms and mobilize sustainable resources for MEA implementation.

The purpose of the inception workshop held in Yaoundé (Hotel Azur) from the 23 -24 October 2013 was to create a common, understanding and support of the project, its vision, goals, objectives and implementation plans. Over 50 participants drawn from government, universities. Research institutes. International organizations, NGOs, and private took part.

By Dr Ajonina Gordon

Cameroon Ecology Trains Referees

From December 12 to 13, 2013, ecosystems, occurred a training workshop for local During stakeholders management of conflicts within the actors, methods of arbitration and the premises of Cameroon Ecology at different types of conflicts in the context Edea.

was led by Patrice Ngokoy, Iris Bayang concerning Ndjebet of and Cécile Under the project Ecology sustainable community and conservation management mangrove ecosystems in cameroon " or ideologically support the protagonists. The organization Cameroon Ecology Apart moderators CameEco, Mr. Shey, organized a platform for exchange on a researcher gave a presentation on his participatory management in conflict. A experience in the mangroves and how workshop is required to CamEco cope conflicts degradation rapid ecosystems, including the mangroves. It overall objective of the workshop was " was about to gather the municipalities, governments, companies, civil society and research of Wouri estuary and awareness on institutions / universities to talk about sustainable management of mangrove actions the mangroves. different actors involved in work that "according to Camer Eco's moderators.

through two modules. the various presentations, participatory participants learned to identify sources. of conservation and management of mangrove ecosystems. It was learned The meeting, which lasted two days, that in such a situation of dispute the preservation Cameroon ecosystems, there is a share of direct " participants , who compete in an based immediate way. On the other hand, of there are indirect actors, who financially can accelerate their of degradation. After this exchange, the people, to bring together within a structure (private platform) of all actors within mangrove These resources of their respective areas allowed them to learn about the current It was also who validate a final charter



the said mangrove platform of the Wouri estuary. Finally, it should participants awareness on the importance mangroves and give them the tools conflict resolution in the mangroves. In the

status of mangroves in the Wouri end, players such as fishermen have estuary, through the presentation of a resolved to educate their community draft of the platform of the estuary. The about the sustainable use of natural platform has been enriched by the resources mangroves. proposals from the stakeholders.

This workshop was also an opportunity for them to learn a little more about conflict management in mangrove

By Rowina Nguimbis

SHRIMP AQUACULTURE DEVELOPMENT AND IMPROVEMENT OF ENTREPRENEURSHIP IN AND AROUND THE MANGROVE ECOSYSTEM IN KRIBI AREA

n 2004, the NGO OPED with month/household or 360 a mission to create greater /year/recipient, valued of environmental 900,000 FCFA/year/recipient, awareness issues and encourage the which provides a revenue Impact emergence of approaches to increase of about 60% and the development centered on man, sustainable management

mangroves.

around the mangroves areas mangrove ecosystems. of Kribi represent nearly 40% the population. attached to fisheries resources as a basis for their OPED became the pioneer in

participants at the workshop was deployed in the villages of food and their culture, they are the field of aquaculture of riparian fighting daily for the income- freshwater prawns and Kribi. mangroves areas to mobilize generating activities for and people, students. local alternatives to the traditional use authorities, the private sector of fish already reduced and the general public on the overexploitation, and now aquaculture limited by the installation of adoption on major projects in the Kribi area. technology based freshwater shrimps in order to

reduce the capture of female This daily struggle has a shrimps that always move negative impact on marine, continuing this initiative in the towards the mangroves to lay coastal and their eggs.

OPED developed with the conservation **GEF** Grants 2008 in CBFF/ADB (2009-2012) aquaculture techniques based on freshwater shrimp. To implement the objectives achieve the expected results, the following activities carried out:



Balance sheet

The results obtained at the end awareness of stakeholders on of this initiative is satisfactory the importance of mangrove with the capacity of 160 women ecosystems, development and and the rest to support the dissemination of a construction of 15 Chinese guide for use by farmers on bamboo cages and corrugated iron sheets structuring of 5 groups into environmental CIGs. The performance of this sessions focused on coastal initiative indicates that women ecosystems, have more than 100 kg per marine month on average over the 30 people garbages made in cages with techniques of freshwater and 30kg/ support on the establishment of average

35 techniques for shrimp and aquaculture, Organization of education freshwater water and training aquaculture on

and

Information

microkg shimp farming at enterprises.

of With a focus on building freshwater biodiversity and awareness and capacity, the promote sustainable practices future Douala -Edea National Park Communities living in and in fisheries and biodiversity of

Very Sustainability



freshwater CBSP program - sustainable biodiversity. To limit the damage, community management and mangrove SMALL ecosystems in Cameroon **GDP** MINEP.

> By: Elie Nguekam Wambe **Biologist / Environnementalist** Head of OPED center, Kribi

CARBON STOCKS IN SLASH AND BURN AGRICULTURE SYSTEMS IN COASTAL FORESTS

Carbon sequestration is the means by which the food needs of the population are met. In order to assess the level of carbon sequestered in slash-and-burn contribution of OPED helped to farms, a study was conducted in the

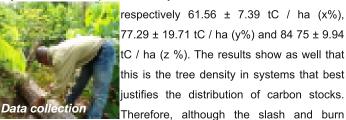


located in the coastal forest area of Mouanko. The method consisted of characterizing and classifying the different farms into different levels of forest degradation, the classification criteria being the density of trees present and the dominant crops. Standard forest inventory and mensuration techniques were used for all trees diameter

A total of 75 farms were and funded by the GEF and the inventoried, divided into annual crop systems (dominated by cassavas and egusi), biannual crops (dominated by cocoyams and yams) and perennial crops (dominated by plantains). These systems represent respectively, the most undisturbed, moderately disturbed undisturbed forest levels.

> The amount carbon

sequestered in the different components of annual, biannual and perennial crops systems as compared to adjacent undisturbed forests were



agriculture contributes to the supply of food needs of the population, it is

responsible for the loss of a large amount of carbon in the study area.

By Dmapo W. Jasmine **Programme Assistant CWCS**

INTERVIEW

"The ISH should help to strengthen our food self-sufficiency"

Interview with Pr TOMEDI EYANGO Minette, Director of the Fisheries Sciences Institute, University of Douala



Professor Tomédi Minette Director Institute Fisheries University This

opened its doors in 2010.

Matanda News: How could you describe your sustainable school?

Pr Tomedi: The Institute of Fisheries and and multilateral agreements. Aquatic Sciences (ISH) is one of the eleven center of excellence for training, research and here? development support to sub-regional (CEMAC) sciences. Academic training at ISH on the pedagogical principle of credits. This within method is intended to make the heterogeneous Management, and courses in the international context. and Limnology, and Processing & Quality have Engineering degrees, Masters and Doctoral / Control PhD are awarded in the course of the training. If a person wants to be a student in this Matanda News: What are your relations with ISH should help strengthen our food self- school, what condition should he fulfill? the sufficiency. So far, we have currently around Admission to the ISH is only through a Ecosystems Conservation Network? national and international students.

"Fisheries Sciences"?

understand the equivalent of agronomy in the been obtained during the same session and aquatic environment. ISH train many high-level the GCE Ordinary Level has the subjects within the context of professional practice, executives in the sector.

Matanda News: What are the objectives of this Education is also school?

Pr Tomedi: We train executives in the fisheries and aquaculture sector in the context of Matanda News: What are the qualifications December integrated coastal zone management. Products

Tabi, maritime and oceanographers, technologists, merchant navy is also one of those goals. cycle, which is obtained in a further three years. Providing necessary human skills for management of resources and aquatic ecosystems and the school coastal areas, including inherent bilateral

is education, research and five departments: Aquaculture, Fishery Products. competitive examination. Baccalaureates of Pr Tomedi: By fisheries sciences, one must Chemistry provided that these subjects have Conservation Network (CMN) on **Physics** Mathematics. Any other amounts to 50.000Fcfa.

(Mrs) from ISH through an effort of proper training Pr Tomed: Institute of Fisheries and Aquatic Eyango will accompany development of national Sciences awards the following qualifications activity in its fishery and depending on the cycle and the selected option: the environmental components. We fill a major bachelor cycle, which lasts 03 years to become of gap in Cameroon on training fish farmers, a Fisheries Works Engineer (Professional quality bachelor); Master program that lasts 02 years, Aquatic Sciences of controller of fishery resources and marine at the end of which the student becomes a of managers to overcome the acute deficit of Fisheries Engineer (Professional Master II), or Douala at Yabassi. national professionals in these critical areas. you can specialize in research (MSc in institution Develop the fisheries administration and the Fisheries Sciences). The Summit is the doctoral

> fishery Matanda News: Opportunities offered by the lead? vou

Pr Tomedi: The first job is teaching or research. The Fisheries Works Engineer can work in institutions of the University of Douala. It is a Matanda News: What are the fields found some departments as MINEPIA, MINADER, MINEPDED, in other international organizations like FAO, WFP, UNDP, WHO, ADB, WB, etc. vocation in the field of fisheries and aquatic Pr Tomedi: ISH has three statutory tasks: They may also be involved in the commission of development the Congo and Lake Chad Basin, in distribution multidisciplinary in character organized based support. Pedagogy based training is done companies of fishery products, laboratories of Fisheries Control of Water Quality and Fisheries aquatic Products, merchant navy. the in systems more readable and harmonize grades Ecosystem Management, Oceanography employment is an alternative for those who can the spirit of initiative.

> Cameroon Mangrove Wetlands

series C and D or their equivalents for Pr Tomedi: Since the signing of the agreement Matanda News: What should we understand by Francophones and for Anglophones -AL in between the University of Douala through the Biology and Chemistry and Physics or Institute of Fisheries and Aquatic Sciences, the Mathematics. GCE -AL in Biology and Cameroon Mangrove & Wetlands Ecosystems Environment Day June 5, 2012, ISH students participated in trade fairs exhibition with CMN, equivalent diploma by the Ministry of Higher followed by out planting of nearly 7,000 accepted. Admitted mangrove seedlings to reforest 6 hectares of students must pay their tuition fee, which deforested mangrove land in "Bois de Singes" New Priso, Douala; unveiled commemorative board. From the 5 to 6 2013. we COorganized responsible fishing, sustainable aquaculture and obtained at the end of the training? international workshop with the United Nations Environment Program.

In the next few years, we want to create an observatory on mangroves. The University of Douala and CMN has shown that with the Mangrove ecosystems are commonly found - Industrial pollution through poor industrial in a few sessions of professional practice and $% \left(x\right) =\left(x\right) +\left(x\right) +\left($ mangrove all along the Cameroon coast. These conditions. efforts would be in vain, unfortunately, if the competent authorities do not cooperate to reduce population pressure in search of habitat In secure the areas reforested. /

By Rowina Nguimbis

THE ROLE AND IMPORTANCE OF MANGROVES IN AFRICA

number of students and the ability to replicate in the intertidal and inter tropical coastal waste disposal and oil spills (ship accidents They are characterized with the help of the international community, it watersalinity levels than other plant species) degrades and pollutes the mangroves, is possible to reforest 48,000 hectares of allowing them to survive in very hostile - The growing presence of salt-ponds in These roles which are necessary to point out growth

> terms of economic mangroves provide a range of products for AfricanMangrovescover over 3.2 million consumption which sustains the livelihoods hectares (with about 200,000 ha in of local communities (honey, bush meat, fish Cameroon) products, non-timber forest product) but also approximately 19% of the global size , are improves the living standards and the actually in distress and require emergency national economy throughecotourism, and actions as at the local, national and the sales of firewood, building poles, international levels by mobilizing all charcoal wood

> by on the high seas pneumatophores (roots that adapt to higher - The oil exploration and exploitation which highly endangered West Africa for salt production in mangroves ecosystemsnowadays, have very important which are not favourable conditions for the

importance, CONCLUSION

which represents and fishery products. stakeholders including political and technical authorities, development partners, the civil needs to be done in order to reverse the currently observed at about 1% per year.

> Watsop Kuete Eustache Journalist in Environnement and Health

At the ecological level, mangroves have undeniable intangible roles through the society and local communities. Indeed even improvement of the microclimate, availability of habitats for certain animal species and though much has already been done in this the provision of foodstuff. Thus this ecosystem attracts many species including water context by these stakeholders, much more birds andmarine turtles.

Within the ecological importance ,it would be necessary to also mention the roles of rate of degradation and disappearance Mangroves in;

- The coastal protection as shield against certain natural forces such as the waves, strong winds, typhoons and Tsunamis,
- sequestration Carbon (greenhouse effect), thus producing a large plant biomass of about 110 kg / ha /per day of carbon such as observed in Malaysia.
- Pollution control and water purification,
- The resilience or capacity of mangroves oppose climate change;
- Facilitating transportation by through water creeks other waterways.

A creek wi

Concerning its socio-cultural importance, the presence of mangroves facilitates the development of traditional lifestyles of individuals (traditionalmedicine, beliefs, and rituals).

THREATS TO MANGROVES:

Despite the primary importance of mangroves, several threats of very large spans weigh on theseecosystems. These includes:

- Industrialization and urbanization (such as the Youpwe construction of ports in Douala)
- The creation of sand quarries,
- The development of aquaculture and shrimp farms especially in Asia and increasingly in
- The extensive use of mangroves asfirewood for smoking fish and for heating by the local villages and cities and as construction poles,

ANNOUCEMENTS

- The 12th Executive Committee Meeting of RCM will be held in March 2014 the venue to be announced
- Cameroon Wildlife Conservation Society (CWCS) and Watershed Task Group (WTG) organize will in collaboration partners and volunteers a water bird count Cameroon coast in January 2014 to update the count in January 2007

For any information please Contact the team with this e-mail address:

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