



Deutsches Institut für Entwicklungspolitik German Development Institute



Workshop

Adaptation to Climate Change: Strengthening Capacities in Africa

26 - 27 November 2008 German Development Institute / Deutsches Institut für Entwicklungspolitik (DIE), Bonn Stockholm Environment Institute (SEI)

Strengthening adaptive capacity at local and national levels is key to successful adaptation planning and practice. Especially in Africa, adaptation to climate change is confronted with a number of challenges. There is an urgent need to increase knowledge and collaboration among researchers, practitioners and policy makers in order to identify and implement strategies to strengthen national and local capacities for action.

Against this background, the workshop explores the question of how to foster adaptive capacity in Africa in two areas:

(1) The **first day** deals with research findings on adaptation to climate change in the fields of agriculture and water, which are of high relevance for development in Africa.

(2) The **second day** focuses on institutional challenges in supporting research on adaptation and in this regard on questions about the structure and function of regional centres which are being proposed in negotiations of the United Nations Framework Convention on Climate Change (UNFCCC).

Main goals of the workshop:

- To discuss and review strategies for adaptation to climate change in the agriculture and water sectors and their role in increasing adaptive capacity
- To identify research needs and gaps in these areas and identify potential ways to address them
- To discuss institutional possibilities on how to support research on adaptation to climate change in Africa
- To develop recommendations on the possible role and function of regional centres, that are being proposed in the UNFCCC

26 November 2008

Adaptation to Climate Change in Africa in the Fields of Agriculture and Water

Main question:

What are research needs and gaps and what should be priorities for action?

Background:

The agriculture and water sectors are among the most vulnerable sectors to climate variability and change. Africa's agriculture is predominantly rain-fed and thus sensitive to changes in climate patterns. The Fourth Assessment report of the IPCC has emphasised that agricultural production in Africa will be "severely compromised" and that the population at risk from water stress will increase significantly. There is thus an urgent need to devise effective adaptation strategies and increase adaptive capacity. This session will review a number of adaptation strategies in the agriculture and water sectors. The aim is to discuss lessons learned, to identify research needs and gaps and to foster knowledge sharing among researchers, practitioners and policy makers in order to provide more targeted support for adaptation to climate change in Africa.

9:00	Registration		
9:30	Welcome and Introduction	Chair: Imme Scholz (DIE) Co-Chair: Richard Klein Stockholm Environment Institute (SEI)	
	Presentation of the Project: Climate Change and Development	Imme Scholz	
	What are information needs and expectations from researchers and practitioners with regard to adaptation to climate change?	Friedrich Hetzel, Division 212 German Federal Ministry for Economic Cooperation and Development (BMZ)	
10:00	Session 1 Data and information availability for experts and practitioners		
10:00	Climate models, projections and downscaling - Implications for adaptation in the agriculture and water sectors	Gilbert Ouma (IGAD) Inter-Governmental Authority on Develop- ment (IGAD) Climate Prediction and Applica- tions Centre (ICPAC), Nairobi	
10:15	Discussion		

10:35	Coffee Break		
	Bringing climate information to farmers and decision makers: Experiences, current and fu- ture challenges in the context of climate change:		
10:50	Perspectives from data providers	Peter Bundi Kenya Meteorological Department (KMD)	
11:05	Perspectives from participatory research with farmers	Moussa Sanon Institut de l'Environnement et Recherches Agricoles (INERA), Burkina Faso	
11:20	Application of meteorological products for im- proving agricultural production – experiences in strengthening capacities of farmers in Mali	Birama Diarra Direction Nationale de la Météorologie du Mali, Division Recherche et Développement	
11:35	Discussion		
12:00	Agricultural extension services in Africa and ef- fective communication tools: success factors, pitfalls and research needs:	Maurice Opondo Department of Land Reclamation, Ministry of Water and Irrigation, Kenya	
12:15	Discussion		
12:35	Lunch		
13:35	Session 2 Strengthening adaptive capacity in the agricul	ture and water sectors	
13:35	Climate change adaptation in Africa: Lessons learned in the agriculture and water resources sector	Rashid Hassan University of Pretoria	
13:50	Climate change adaptation in African agricul- ture: Insights from local actor strategies and socio-ecological contexts	Chinwe Ifejika Speranza German Development Institute (DIE)	
14:05	Discussion		
14:25	The role of micro-insurance in adaptation to climate change: potentials, key challenges and research needs	Dirk Reinhard Munich Re Foundation	
14:40	Discussion		
14:55	Conceptualizing adaptive water management	Elke Herrfahrdt-Pähle German Development Institute (DIE)	
15:10	Discussion		

15:20	Water storage and rain water harvesting revis- ited: Past experiences and potential as an adap- tation practice in the Arid and Semi-arid Lands of Africa	Pay Drechsel International Water Management Institute (IWMI), Ghana	
15:35	Discussion		
15:45	Coffee Break		
16:00	Organic agriculture as mitigation and adapta- tion strategy in African agriculture	Susanne Neubert German Development Institute (DIE)	
16:15	Discussion		
16:25	Session 3 Challenges in strengthening institutional aspects of adaptive capacity		
16:25	Climate change governance in Africa: What are the specific challenges?	Chukwumerije Okereke University of Oxford	
16:40	NEPAD's visions of how to strengthen institu- tional aspects of adaptive capacity within the NEPAD process	Estherine Fotabong NEPAD	
16:55	Discussion		
17:15	Synthesis and outlook		
	Visit to Christmas Market in Bonn		
20:00	Dinner		

27 November 2008

Capacity Building for Research on Adaptation to Climate Change in Africa

Main question:

How to support research on adaptation to climate change in Africa? Are regional centres a way forward?

Background:

Research on adaptation is an important entry point for strengthening adaptive capacity and for identifying adaptation options. So far, it has received limited attention in the political debate. Especially in African countries, there is an urgent need to strengthen research capacities. In the scientific fora, for example the IPCC process, to which global climate change policy refers, African scientists are still underrepresented..

The UN Framework Convention on Climate Change facilitates support for research on adaptation through Article 6 and the Nairobi Work Programme which runs until 2010. The question of how to continue and strengthen support on adaptation in general and adaptive capacity in particular beyond the current adaptation framework is still an open question in negotiations. One suggestion is to support regional centres and networks. Ideas, on how such regional centres or networks should be made operational are beginning to emerge.

In a first step, this session will therefore look at current initiatives, instruments and programmes that are supporting capacity building for African researchers within the realm of adaptation to climate change. It will discuss related drawbacks and opportunities as well as gaps and needs. In a second step, participants are invited to give recommendations on how to improve support for research on adaptation to climate change in Africa and on the possible role and function of regional centres within the UNFCCC.

9:00	Welcome and Introduction	Chair: Dr. Richard Klein Stockholm Environment Institute (SEI) Co-Chair: Britta Horstmann (DIE)
	Framing the issue - why support African re- search on adaptation to climate change?	Britta Horstmann (DIE)
9:15	Supporting research on adaptation to climate change through the UNFCCC	Festus Luboyera United Nations Framework Convention on Climate Change Secretariat (UNFCCC)
9:40	Session 1 Supporting capacity building for African researchers - success, challenges and needs	
	Building research capacity through a frame- work of regional centres, research nodes, sci- ence committees and secretariats	Pius Z. Yanda Global Change SysTem for Analysis Research and Training (START)
	Africa Adapt – a knowledge sharing network on climate change adaptation in Africa	Tom Mitchell Institute of Development Studies (IDS)
	Virtual Centres and capacity building for meet- ing research needs on adaptation to climate change	lan Curtis Department for International Development (DFID)
	Writeshops to support publishing in peer- reviewed journals	Richard Klein Stockholm Environment Institute (SEI)

10:45	Coffee Break	
	Networking in partnership for research on cli- mate change	Urs Wiesmann National Centre of Competence in Research North-South (NCCR)
	Climate change adaptation in Africa: UNEPs role and engagement	Musonda Mumba United Nations Environment Programme (UNEP)
	GCOS Capacity Building in Africa for Data Ob- servation and Management	William Westermeyer Global Climate Observing System (GCOS)
	Building on existing research structures for research on adaptation to climate change in Africa	Peter Dogsé (UNESCO)
11:45	Session 2 Regional centres in the UNFCCC: supporting research for adaptation needs	
	Regional centres in the UNFCCC - pros, cons and open questions	Martin Cassel-Gintz German Federal Environment Agency (UBA)
	Breakout groups	Questions:
		 What kind of support for research on adaptation to climate change is needed?
		 What is the best way to support African research on adaptation?
		 Apart from presentations in session 1, what activities are already ongoing?
		 What are possible starting points in terms of institutions and instruments?
		 How should regional centres within the UNFCCC be conceptualized?
13:00	Lunch	
14:00	Breakout groups (continued)	
14:45	Feedback from break-out groups: Recommendations, ideas and starting points to support re- search on adaptation to climate change in Africa	
15:30	Closing Remarks	Imme Scholz (DIE) Richard Klein Stockholm Environment Institute (SEI)

Participants

Family Name	First Name	Organization
Adegboye	Kayode Raphael	University Bonn (Student)
Alker	Marianne	German Development Institute (DIE)
Asante	Felix A.	University Ghana, Institute of Statistical, Social and Economic Research (ISSER)
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Curtis	lan	Department for International Development (DFID)
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	Norbert	University Hamburg, Bio Centre Klein Flottbek and Botanical Garden
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Mitlöhner	Ralph	University Göttingen, Tropical Silviculture
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Mumba	Musonda	United Nations Environment Programme, UNEP/DEPI
Neubert	Susanne	German Development Institute (DIE)

Family Name	First Name	Organization
Njoroge	Esther	University Bonn (Student)
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