

Terms of reference
for
Steering Committee
to organize

A sub-theme of Climate Science, Data, Information and Service Delivery of CCDA II
Conference (October 19-20, 2012, Addis Ababa)

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The African Climate Conference 2013 (September 2013, Addis Ababa)

‘Climate Science Research for Sustainable Development in Africa’

I. Introduction

The African Climate Policy Center (ACPC), being a special center of United Nations Economic Commission for Africa (ECA), under Food Security and Sustainable Development Division (FSSDD) and supported by African Union Commission (AUC) and African Development Bank (AfDB) in the context of Climate for Development in Africa (ClimDev Africa), has a goal of making development more sustainable and to manage associated climate risks for the benefit of the majority of Africans. ACPC will organize its second conference on Climate Change and Development in Africa (CCDA II), on October 19-20 2012. This conference will cover broader areas of climate change.

The World Climate Research Programme (WCRP), via its Africa panel (VACS), will be partnering with ACPC in planning for a joint agenda centered on: ‘Putting climate science at the service of adaptation decision-making in Africa’.

The first endeavor in this joint agenda will be planning for the Addis Conference in October 2012, in the aim of making sub-theme 1 of the CCDA-2: “Climate Science, Data , Information and service delivery” a shining success. The idea comes directly from the African panel (VACS) meeting, which WCRP sponsored in Cape Town in late 2011. The Africa panel defined therein as one of its priority areas the need to bring together African decision-makers and climate researchers and scientists around a number of common goals, including:

- Identification of the gaps in current climate knowledge
- Establishment of the state of knowledge on the African climate system
- Development of a framework for mainstreaming climate information into

decision making for the 21st century.

In line with this, ACPC and WCRP’s Africa Panel (VACS) will organize jointly one of the four sub-themes related to climate science, data, information and service delivery. The overall objective of this joint endeavor in 2012 is therefore to strategically improve the use of climate information for decision making and policy formulation as well as to devise ways to increase the quality and reach of climate information in Africa. The

conference has the additional benefit of being posed jointly by WCRP and ACPC within CCDA-II.

Following the CCDA-II, the gaps in climate research identified and validated by the community of practitioners in attendance at the CCDA-II will be the object of a large-scale climate conference, dedicated to formulating a coherent climate research strategy for Africa and developing concrete research proposals to address gaps in African climate research: The Africa Climate Conference 2013.

For the purposes of preparing both the CCDA-II and the Africa Climate Conference 2013, a scientific and technical steering committee is established drawn from high-level experts who are representative of the range of institutions in Africa and outside Africa active in African climate research. Based on a prior mapping of Africa climate research centers and researchers, these experts will be convened together in Addis for the purposes of defining, and launching the activities of the Steering Committee. Steering Committee members will be chosen by their peers and will begin their joint planning at that meeting, due to be held September 13-14 in Addis Ababa.

II. Objectives of the steering committee

Overall objective: Drive, foster, develop and actively support User driven Research Programs to Improve our understanding of the African climate system and push back the current Frontiers of climate knowledge, to produce salient climate research outputs able to meet end-users needs to the mid-to-late 21st century.

Seamless transition from Research to Application: Jointly develop, plan and streamline newly developed climate research outputs and products into the regional and national operational centers and processes, working with them to put climate research outputs in the hands of final end users through the most appropriate channels.

Be strategic. Focusing on the research needs to meet end user decisional support requirements to the mid to late 21st century in Africa, select a few priority Climate Knowledge Frontiers in Africa, and commit to resolving them, providing new knowledge to inform decision-making in the face of increased climate variability and change on the continent.

Specific Tasks:

1. Create, drive and steer an Africa wide agenda on climate research, linked to existing continental policy processes, partners and institutions (regional, national and sub-national) to deliver Africa agenda on climate research, while addressing global research needs.
2. Support facilitate and empower national and regional climate institutions to interface better with end-users through RESEARCH and capacity development,

that addresses priority national, regional and continental research gaps, with the support of global partners (e.g.: the GFCS mechanism, GPCs, ...).

3. Identify Knowledge Gaps in Climate Science and Applications:
 - 3.1 Identifying User needs to direct the climate research agenda, with iterative processes for updating the list of (e.g.: through the CCDA-2 yearly platform)
 - 3.2 Defining the State of knowledge under each specific Climate Knowledge gap or Frontier identified
 - 3.2.1 Reviewing existing knowledge, products and services: what we know
 - 3.2.2 Current Stochastic limits to the science
 - 3.2.3 Identifying the gap: what new information and research is needed to close the Climate Knowledge Gap
 - 3.3 Defining a strategy to bring new products and services to regions, building on existing institutions and processes (end-user engagement, collaborative research, training, etc.)
4. Address Priority Knowledge Gaps in Climate Science and Applications, with provisions for:
 - 4.1 Addressing the structural factors why climate knowledge gaps exist (data, research environment and conditions, professional development, incentives, sustained bridges with end-user institutions for user-driven research, ...)
 - 4.2 Training and capacity development for African institutions to conduct and implement funded priority pan-Africa climate research programs
 - 4.3 Training and capacity development for end users to utilize and improve (value addition) provided climate outputs
 - 4.4 Strengthen capacity for communication and improve climate service delivery systems through research.

III. Implementation Strategy

In order to deliver on the above specified goals and specific objectives, the SC proposes to:

1. Prepare the contents of the sub-theme on climate science, data, information and service delivery of the CCDA-II Conference, as well as
2. Organize a large-scale Africa climate conference, dedicated to formulating a coherent climate research strategy for Africa and developing concrete research proposals to address gaps in African climate research: The Africa Climate Conference 2013.

Specifically, the SSC will be responsible for:

1. In Organizing the scientific content for the CCDA-II Sub-theme 1 on on climate science, data, information and service delivery:
 - To review and consensually agree on a list of African Climate Research frontiers, for all climate-sensitive sectors recognized out of CCD-1, to serve as the basis for the review of papers (to be presented to the CCDA-II community of decision-makers)
 - To identify topics under the sub-theme of Climate Science, Data, Information and Service Delivery of the CCDA II
 - To identify speakers/contributors to invite under each topic
 - To select papers and posters to be presented during the CCDA-II, and to decide on sequencing of presentations
 - To finalize the CCDA-II sub-thematic programme.
 - Participate in choosing panel discussants of the CCDA II

5. In preparing for the Africa Climate Conference 2013, to:
 - agree on an appropriate title, scope, mission and vision for the first pan-Africa climate research event;
 - define a preparation timeline for the Africa Climate Conference 2013;
 - establish the ad hoc funding committee, and other relevant organization taskforces;
 - validate the prior mapping of existing climate research institutes and researchers;
 - draft call for paper for the Africa Climate Conference;
 - select the relevant papers for the Conference;
 - design the programme and allocate time and speakers;
 - decide on the number of participants in climate science
 - decide on the number of participants from the user community
 - decide on the number of participants from the donor community
 - organize a panel discussion
 - organize a side event in the Africa Climate Conference
 - fund raise and support conference participants
 - devise ways for the contribution of IPCC Working group II for African chapter, before the December 2012 deadline for contributions to the AR5
 - mobilize fund for climate research in Africa as well as for subsequent consultative meetings

6. Advancing research in Africa: Continually lead the process of moving forward effective research in climate science for development through
 - Identify critical research and knowledge gaps
 - Map institutions and retain repository of information on who is doing what
 - Support partnership development and strategies for effective partnerships
 - Mobilize research funding
 - Monitor the quality and effectiveness of research

- Support the establishment and solicit roles to various institutions to advance and manage climate science research for development

IV. Scope of the steering committee

The steering committee will work for CCDA II conference of Sub-theme of climate science, information, data and service delivery. The steering committee will continue to work after CCDA II to organize the Africa Climate Conference 2013, and support the African climate research programs and centers that emanate from the CCDA-II. Furthermore, the steering committee will advance the research agenda of ‘Putting climate science at the service of adaptation decision-making in Africa’, through leading the process up to the 2013 Africa Climate conference and beyond

Organization of the Preparations for the ACC2013

To deliver on the Africa Climate Conference 2013, the SC has established the various following organization committees:

- A Scientific and Technical Committee, in charge of the call for papers and drafting project proposals to be presented at the ACC2013;
- A Fundraising Committee, to reach and engage with research partners and the donor community;
- A Communication Committee, to coordinate and produce all communication and publicity related materials leading up to the ACC2013;
- A Logistics and Organization Committee, to implement the logistical preparations for the 2013 Conference.



Diagram 1: Organization of preparations for the Africa Climate Conference 2013 (October 2013)

Steering Committee Members (see Annex):

- **WCRP CLIVAR Africa Climate Panel**
- **Africa Climate Policy Center (ACPC)**
- **Representatives from all Regional Climate Centers (ICPAC, ACMAD, SADC CSC, AGRHYMET, North Africa RCC Nodes)**
- **WMO/GFCS**
- **AMMA**
- **University of Cape Town/CSAG**
- **University of Dar-es-Salaam**
- **UK Met Office**
- **University of Oklahoma**

Composition of Committee Members:

- *Scientific and Technical Committee:*
 - ACPC
 - Fred Semazzi
 - Joseph Mutemi
 - Brad Garanganga
 - Richard Anyah
 - Ousmane Ndiaye
 - Richard Graham
 - Arame Tall
 - Richard Washington

- *Resource Mobilization Committee*
 - ACPC
 - Pete Lamb
 - Fred Semazzi
 - RCCCs
 - Richard Graham
 - Arame Tall
 - Richard Washington

- *Communication Committee*
 - ACPC
 - Anna Pirani
 - RCCCs

- *Logistical Committee (Chair: ACPC)*

•ACPC

V. Expected outputs

A review of African climate research state of the knowledge and remaining research gaps, to be proposed at CCDA-II for review and approval

Design of interactive sessions at CCDA-II based on identified climate research knowledge gaps.

Definition and consensual validation of an African climate research agenda, to be followed on after the ACC 2013 for research funding and collaborations.

A standard paper will be presented and published for CCDA II conference and the United Nation's Framework Convention in Climate Change (UNFCCC) eighteenth Conference of Parties (CoP18) in Doha and other knowledge products for the sub-theme, and the IPCC AR5.

Review of the State of the knowledge on African Climate Science research frontiers.

A stand alone book publication will be presented and published on African Climate Research Gaps for the Africa Climate Conference 2013 and the United Nation's Framework Convention in Climate Change (UNFCCC) nineteenth Conference of Parties (CoP19), as well as the IPCC.

VI. Schedule

All the documents of sub-theme 1 must be ready before CCDA II, scheduled october 19-20, 2012. All synthesis documents will be made available before CoP18 and in time for consideration for the IPCC AR5.

All the documents of the Africa Climate Conference must be ready by July 2013, before the Conference scheduled for October 2013.

VII. Timeline of Steering Committee Activities: Sub-theme 1 of CCDA-II

Activity	Jan 2012	Feb	Mar-Aug	Sep	Oct	Nov	Dec 2012	Jan 2013	Feb	Mar-Aug	Sep	Oct-Nov	Dec 2013
<i>Concept Note development</i>													
<i>Mapping of African climate science research programs & centers/hubs</i>													
<i>High-Level Stakeholder Consultations</i>													
<i>SSC Launch meeting and Establishment of Conference Planning Committees Addis, Ethiopia</i>				Sep. 13-14									
<i>CCDA-II Side meeting of the SSC Oct. 21 2012</i>					Oct. 19-20								
<i>Wide end-user outreach and stakeholder consultation on African Climate Science frontiers, validated out of CCD-2 (by NHMSs, RCCs, COP, AMCOMET,)</i>													
<i>Review of state of knowledge on validated African CS frontiers</i>													
<i>Call for abstracts goes out. Abstracts due by March.</i>													

<i>Selection of abstracts and posters, Paper development</i> Papers due by early July														
<i>Paper selection, edition.</i> Final papers due early August.														
<i>Agenda and Proposals drafting</i>														
<i>Conference logistical preparation</i>														
ACC 2013														
<i>Conference reporting and submission of research funding proposals</i>														

Annex: Steering Committee Composition

18-member Steering Committee Members selected by their peers:

SC Member Name	Capacity in which invited to serve on the SC	Contact (email/phone #)
▪ Richard Washington	VACS co-chair	richard.washington@ouce.ox.ac.uk
▪ Arame Tall	VACS co-chair	arametall@gmail.com / a.tall@cgiar.org
▪ Seleshie Bekele	African Climate Policy Center (ACPC)/UNECA	sbekele@uneca.org
<i>West Africa</i>		
▪ Adama A. Diallo / Cheikh Kane	ACMAD	a2diyalo04@yahoo.fr / tawenafa@gmail.com
▪ Seydou Traoré	AGRHYMET/CILLS	seydou_traore@yahoo.com
▪ Ernest Afiesimama	AMMA, Nigerian Meteorological Agency	ernafies@yahoo.com
▪ Ousmane Ndiaye	AMMA, Senegal Meteorological Agency	ousmane@iri.columbia.edu
<i>Southern Africa</i>		
▪ Brad Garanganga	SADC Climate Services Center (formerly DMC)	bjgaranganga@yahoo.co.uk
▪ Bruce Hewitson	CESAG/CORDEX/user interface champion	hewitson@csag.uct.ac.za
<i>East Africa</i>		
▪ Joseph Mutemi	ICPAC	jnmutemi@yahoo.co.uk

▪ Pius Yanda	University of Dar-es-Salaam/ACCFP	yanda@ira.udsm.ac.tz
▪ Fred Semazzi	North Carolina State University / WCRP Joint Steering Committee	semazzi@ncsu.edu
<i>North Africa</i>		
▪ Abdulla Mokssit	Morocco Met Office Director	mokssit@marocmeteo.ma , mokssit.abdalah@yahoo.fr
<i>Partners & Diaspora</i>		
▪ Richard Graham	UK Met Office/CSRP Research Program	richard.graham@metoffice.gov.uk
▪ Pete Lamb	U Oklahoma/NOAA	plamb@ou.edu
▪ Peter van Oevelen / Richard Anyah	GEWEX	Peter.vanOevelen@gewex.org / Richard.Anyah@uconn.edu
▪ Filipe Lucio	WMO, GFCS Head	flucio@wmo.int
▪ Simon Mason	IRI/GFCS	simon@iri.columbia.edu

Annex: Task List

Individual Tasks to be accomplished by Conference co-hosts (ACPC & WCRP) and Steering Committee

The tentative specific tasks and responsibilities of each participating party in preparing for the SACSC 2013 are outlined as follows:

- a. Mapping of major climate research programs, centers and hubs across Africa (February 2012)

Task aim: Identify all major stakeholders to involve in the planning, scientific steering and implementation of the SACSC 2012 Plan of Action.

VACS will carry out this mapping in collaboration with CORDEX and UCT.

- i. Task leaders: Arame T., Richard Washington (VACS), Bruce Hewitson, Mark New (UCT)
- ii. Task Coordinator: ACPC Focal Point (ACPC)

- b. Organization and facilitation of a Stakeholders Consultation/teleconference and Scientific Steering Committee Launch Meeting (September 13-14 2012)

Task aim: Convene all targeted African climate scientists and adaptation policy-makers (identified from the prior mapping exercise) for a consultation on how best to run the ACC 2013. Outcomes from this 2-day meeting will be the definition of the Conference vision, Agenda, Action Plan, Preparation Timeline, and establishment of scientific steering committee, etc.

NB: Following the meeting, Steering Committee members will be invited to stay on for an additional day of planning of the Steering Committee's activities.

Location: Addis Ababa, UNECA

- i. Task Leaders: ACPC Focal Point (ACPC), Arame T. (VACS)

- c. Identification and Review of the frontiers of African Climate Science frontiers, for all climate-sensitive sectors recognized out of CCD-2 (October-December, 2012)

Task aim: Identify all of the current frontiers of African climate research. A first brainstorming on this will occur at the Dakar meeting of stakeholders. Following the first draft from the Dakar meeting, the ACC 2013 Steering Committee will be in charge of finalizing the review, having it approved by a larger swathe of African climate scientists and adaptation decision-makers/researchers, and publishing a peer-reviewed article on the topic.

- i. Task Leader: SACSC Scientific Steering Committee
- ii. Coordinated by: ACPC Focal Point (ACPC)

- d. Call for Papers: Reviewing the State of the Knowledge on the frontiers of African Climate Science frontiers (Deadline for abstracts: end March 2013)

Task aim: The Final approved list of African Climate Science Frontiers (from prior consultation exercise) will serve as the basis of the call for papers for the ACC 2013. Papers will be invited under each Frontier, to improve our collective understanding of the State of the knowledge and remaining gaps under each salient Frontier to be pushed back to enable effective adaptation decision-making across timescales (from the next season to the time horizons of 2050 and 2100).

We should be creating a journal special issue – perhaps ERL; for this need to put in a proposal well in advance of the conference.

- i. Task Leader: ACC 2013 SC Scientific and Technical Committee
- ii. Coordinated by: ACPC Focal Point (ACPC)

- e. Papers Review and Selection, Invitations to selected African scientists & presenters (April 2012)

- i. Task Leader: ACC 2013 SC Scientific and Technical Committee
- ii. Coordinated by: ACPC Focal Point (ACPC)