

## **Report on GEWEX Related Africa Activities (2016) to GEWEX SSG28,**

**Zurich Switzerland: 25-28 January 2016**

**Richard Anyah**

### **1. Climate Research for Development in Africa (CR4D) Initiative**

- The Climate Research for Development (CR4D) in Africa initiative was launched to strengthen links between climate science research and climate information needs in support development planning in Africa. CR4D is an African-led initiative supported by partnership between African Climate Policy Center (ACPC) of UN Economic Commission for Africa (UNECA), African Ministerial Conference on Meteorology (AMCOMET), World Meteorological Organization (WMO), and Global Framework for Climate Services (GFCS).
- CR4D is the outcome of the African Climate Conference (ACC) held in Arusha, Tanzania in October 2013

### **Status and Milestones (2015)**

- CR4D Secretariat set up at the African Climate Policy Center ( Addis Ababa, Ethiopia) in mid. June 2015 ( Richard Anyah as Interim Coordinator while on sabbatical Leave from UConn until May 2016)
- CR4D Scientific Advisory Committee formed ( 15 members)  
<http://www.climdev-africa.org/cr4d/sac-members-profiles>
- First SAC meeting held in Victoria Falls (Zimbabwe)-29Oct. 2015
- CR4D received ~600K from Dfid for Three Regional Pilot Research Projects on S2S
- CR4D SAC will be meeting (17-18 March 2016) to Develop Framework for Post COP21 **2°Africa2020** Assessment Plan, and CR4D 5-Year Strategic Plan

### **New Directions (2016 and Beyond)**

- CR4D to lead mobilization of expertise and resources to initiate Post Paris **2°Africa2020** Assessment of the impacts of 2oC warming on Africa's key socio-economic sectors: Agriculture/food security, Water Resources, health, and DRR
- CR4D Scientific Advisory Committee to lead process of establishing Africa Journal of Climate Research and Policy to enable young and early career African climate scientists based mainly in African institutions to publish their research.

### **Issues and recommendations**

- GEWEX should consider Joining the CR4D Institutional Collaboration Platform(ICP) that will work with Scientific Advisory Committee to guide CR4D strategic directions

## **2. HyVIC RHP: Progress on Implementation**

### **Status and Milestones (2015)**

#### **HyVic RHP Terms of Reference (proposed)**

- Develop and refine the HyVic Science Plan (<http://www.gewex.org/hyvic/>), based on the work of the HyVic International Planning Committee (IPC), which aims at improving the understanding and quantification of the hydrological cycle and related processes over the Lake Victoria Basin (LVB), with emphasis on the climatology of high-impact weather events, inter-annual to decadal variability of the LVB coupled system, and associated trends in the context of global change. This plan should take into account the objectives listed below in points 2-10.
- Promote linkages and collaboration with the Climate Research for Development (CR4D) science coordination program at the Pan African level.
- Prepare requirements for limited-period and sustained observations in support of the GEWEX project, establish links with the other major climate-observing programs (e.g. GCOS, WWW, GOOS, etc).
  - Promote and coordinate efforts for evaluations and improvements of model simulations (e.g., CORDEX, AMIP, CMIP, IPCC, etc.) for the African region.
  - Promote development of African climate databases and foster access thereto for research purposes in cooperation with projects such as CLICOM, DARE, INFOCLIMA, etc.
  - Promote the involvement of African scientists within HyVic and the use of HyVic products in capacity building activities.
  - Develop cooperative investigations with other GEWEX groups and national, regional or international research programs and organizations interested in this area of research.
  - Develop links with programs and organizations interested in the application of HyVic research (e.g. GFCS, CLIPS, START) and, as far as feasible, integrate requirements of these programs and organizations into HyVic.
  - Execute the HyVic implementation plan and measure the success of the plan against stated objectives.
  - Report to the GEWEX GHP as required on progress and problems in developing and implementing the HyVic plan.

#### **HyVic RHP Members (proposed)**

- **Fredrick Semazzi** (Proposed Chair of HyVic RHP; Professor, North Carolina State University, USA); relevant area of expertise, climate variability.
- **Christopher Oludhe** (Lecturer, Department of Meteorology, University of Nairobi, Kenya); relevant area of expertise, renewable energy.
- **Richard Ogutu** (Scientist, National Fisheries Resources Research Institute, Jinja, Uganda); relevant area of expertise, fisheries/agriculture.
- **John Marsham** (Associate Professor, University of Leeds, HyCristal PI)
- **Kamazima Lwiza** (Associate Professor, School of Marine and Atmospheric Sciences, Stony Brook University, USA); relevant area of expertise, limnology.
- **Rosalind Cornforth** (Professor; Director, Walker Institute University of Reading, UK); relevant area of expertise, precipitation variability and predictability of extremes, user interface.
- **Richard Anyah** (Associate Professor, University of Connecticut, USA); relevant area of expertise, regional climate-hydrological modeling.
- **Nicole Van Lipzi** (Professor, Department of Earth and Environmental Sciences, Belgium); relevant area of expertise, lake processes modeling.
- **Joseph Awange** (Associate Professor, Curtin University, Australia); relevant area of expertise, remote sensing.
- **Ben Zaitchik** (Assistant Professor, Earth and Planetary Science, School of Arts & Sciences, John Hopkins University, USA); relevant area of expertise, climatic and hydrologic variability.
- **Pascal Waniha** (Assistant Director, Tanzania Meteorology Agency, Tanzania); relevant area of expertise, numerical modeling.
- **Rita Roberts** (Scientist, NCAR/UCAR, USA); relevant area of expertise, large observational campaigns.

### **New Directions (2016 and Beyond)**

- HyVIC Proposal submitted to DfID for funding under the WISER received positive reviews ( Funding has been provided for HyVIC team to hold a writeshop to refine the proposal)

### **Issues for attention by SSG**

- Review and recommendations on way forward on the submitted list of potential nominees for HyVIC RHP