

The commitment of the participants to a better understanding of climate change and to better planning of adaptation in the Global South is summarized with a poster exhibition in the Colonne Hall of the Castello del Valentino:

- *Adaptation au changement climatique, prévention des catastrophes et développement agricole pour la sécurité alimentaire: ANADIA-Niger, Ibimet-CNR*
- *Assessing pluvial flood risk under climate change scenarios in urban areas of the North Adriatic coast, Dipartimento di Scienze Ambientali, Informatica e Statistica, Università Ca Foscari*
- *Capacity Building for Adaptation to Climate Change at Local Government Level: the Case of Dar es Salaam, DICEA-Sapienza University of Rome*
- *Disaster Impact and Mitigation Measures in Bhutan, Royal University of Bhutan*
- *Early Warning Systems & Geomatics: Value-Added Information in Absence of High Resolution Data, ITHACA-Politecnico di Torino*
- *Extreme Events Assessment Methodology Coupling Debris Flow, Flooding and Tidal Levels in the Coastal Floodplain of the São Paulo North Coast (Brazil), DIST-Politecnico di Torino*
- *Homogeneous and Non Homogeneous Hidden Markov Downscaling Model for Projection of Hydroclimatic Changes in Tanzania, DICEA-Sapienza University of Rome*
- *Non climatic Factors of Vulnerability to Climate Change: an Estimation of Population in Dar es Salaam using Remote Sensing, DICEA-Sapienza University of Rome*
- *Photointerpretation of High Resolution Satellite Images for assessing the Vulnerability to Climate Change of Niamey, Niger, DIST-Politecnico di Torino*
- *The Use of Backcasting Scenario for Planning Adaptation to Climate Change in Dar es Salaam, DICEA-Sapienza University of Rome*
- *Toward Climate-Resilient Development: the experience of Nigeria, Centro Euro-Mediterraneo sui Cambiamenti Climatici*
- *Urban fluxes estimation and evaluation of the impact of climate change and planning alternatives scenarios, Centro Euro-Mediterraneo sui Cambiamenti Climatici*

Organizing Committee

General Chair Maurizio TIEPOLO, DIST-Politecnico di Torino
Program Chairs Silvia MACCHI, DICEA-Sapienza University of Rome
 Alessandro PEZZOLI, DIST-Politecnico di Torino
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UICCA 2
Urban Impact of Climate Change in Africa
Planning with Scant Information
 2nd International Conference

November 13, 2013, 9:00 - 15:00

Politecnico di Torino, Castello del Valentino, v.le Mattioli 39 Turin, Caccia, Colonne and Zodiaco Halls



Niamey, Niger, 19 August 2012. A catastrophic flood destroyed over 1,000 homes (red dots). Part of the flooded area before and after flooding

Regarding UICCA 2

On the 16th of November 2011 Politecnico, Provincia di Torino and Sapienza University of Rome organised the international conference “Urban Impact of Climate Change in Africa” (UICCA).

Two years later, the research carried out and the projects accomplished have led the organisers of that event to propose a second, focused on Planning with Scant Information (UICCA-2).

The reason is clear. From what we have seen during our research (Macchi and Tiepolo 2013) and our practical applications on site, knowledge of climate change in urban Africa is still scant, access to it is difficult, risk maps are rare, plans are sporadic and disregarded, and individual risk reduction measures, when they exist, are uncoordinated and lacking in efficiency.

This said, certain Italian, European and Global South territorial and research authorities have a wealth of experiences and know how that can help the African cities exposed to climate change. Now, more than ever before, it is necessary to create a network of these players and specific funding programmes are required to allow the sharing of knowledge and the strengthening of skills. Politecnico di Torino and Sapienza University of Rome have carried out several projects of this kind. The particular methods used to carry out the INS projects in Niger and Senegal (2010-2013) and the ACC DAR projects in Tanzania (2011-2014) have allowed the appropriation by local administrations of the jointly conceived information systems.

The two parallel sessions of the Conference focus their work on two important topics:

- Knowledge of the physical events and of their impacts on the living conditions of residents, the collection and organisation of data in an information system. How to improve the availability of information in contexts where there are limited financial and technical resources and which are put under stress by continuous emergencies?
- Planning the reduction of risk with scant information on the present and uncertainty with regard to future scenarios. How to configure tools that are effective in the short term and flexible enough to accept future changes without foregoing medium/long-term planning?

The aim of the Conference is to develop an intense discussion between the experts that operate in the Global South, in search of answers to help African local administrations.

UICCA 2 closes the National Interest Research Project “Assessing, Planning and Managing Locally the Territory and the Environment in Sub-Saharan Africa” coordinated by DIST-Politecnico di Torino and carried out by DIST and DICEA-Sapienza University of Rome between September 2011 and October 2013.

Anyone who is involved in research and in action to reduce the urban impact of climate change and who can provide experiences that can help strengthen the local capacities in Africa is invited to attend the Conference.

Read more Macchi S, Tiepolo M (Eds) (2013) *Climate Change Vulnerability in Southern African Cities. Building Knowledge for Adaptation*, Springer

Abstract submission Speakers are invited to submit the English abstract of their speech (200 words) and possibly a .PDF color poster (A1 size, 648 x 917 mm) that summarizes their early research achievements or building capacity actions in information systems or planning adaptation to climate change in the Global South.

Important dates **Nov 5**, Abstracts and posters submission deadline enrico.ponte@polito.it
Nov 8, Speakers and participants venue confirmation deadline sarah.braccio@polito.it

Program

8:45, Opening the exhibition of Posters & Registration

9:00, Welcome to Participants [Marco D'ACRI](#) (Councillor, Provincia di Torino)
[Patrizia LOMBARDI](#) (Director of DIST-Politecnico di Torino)

9:30, Introduction [Maurizio TIEPOLO](#) (DIST-Politecnico di Torino)

10:00, Session I - **Knowing the environmental risk**
Zodiaco Hall

Session Chair: [Alessandro PEZZOLI](#)

Discussant: [Elena CRISTOFORI](#)

The impact of Climate Change over Africa: the CMCC Experience in the Frame of European Projects

[Edoardo BUCCHIGNANI](#) (Centro Euro Mediterraneo sui Cambiamenti Climatici)

Weather Observing Network and Climate Change Monitoring in Catalonia

[Marc PROHOM](#) (Meteo.Cat)

Impact of the Natural and Anthropic Shoreline Modifications on the Sea-Spray Aerosol Concentrations Measured along the Coast in La Reunion Island

[Jacques PIAZZOLA](#) (Université du Sud Toulon - Var)

Characterization of Flood Hazards at municipality level. A case study in Tillabery Region (Niger)

[Maurizio BACCI](#) (Ibimet-CNR)

11:15, Coffee break, Colonne Hall

Early Warning Systems & Geomatics: Value-added Information in Absence of High Resolution Data

[Piero BOCCARDO](#), [Adriana ALBANESE](#), [Elena CRISTOFORI](#) (Ithaca-WFP)

Analysis of the Sensitivity to Seawater Intrusion of Dar es Salaam's Coastal Aquifer with Regard to Climate Change

[Giuseppe SAPPÀ](#) (DICEA-Sapienza University of Rome)

Disaster Mitigation and its Impacts in Buthan

[Monika THAPA](#) (Royal University of Buthan)

Hydrogeological hazard and land planning in Province of Turin: the role of the Office for Land

Protection and Mining

[Barbara NERVO](#) (Soil protection, Provincia di Torino)

12:30, Brunch, Colonne Hall

13:30, Summary of the Sessions (Caccia Hall) [Elena CRISTOFORI](#) and [Enrico PONTE](#)

13:45, Strengthening local capacities (Caccia Hall)

Round Table Chair: [Raffaele PALOSCIA](#) (University of Florence)

With the participation of [Abdou ADAM](#) and [Issoufou TAIBOU](#) (Niamey Municipality), [Furio DUTTO](#) (Civil Protection Provincial administration of Turin)

14:45, Conclusions [Maurizio TIEPOLO](#)

10:00, Session II - **Planning the risk reduction**
Caccia Hall

Session Chair: [Silvia MACCHI](#)

Discussant: [Enrico PONTE](#)

Adapting Strategies and Plans to Climate Change in Coastal Areas of Global South: a Review

[Enrico PONTE](#) (DIST-Politecnico di Torino)

Mainstreaming Adaptation into Urban Development and Environmental Management

Planning: Lessons from Dar es Salaam

[Silvia MACCHI](#) (DICEA-La Sapienza University of Rome)

Photointerpretation of High Resolution Images to assess Vulnerability to CC in Niamey, Niger

[Maurizio TIEPOLO](#) and [Sarah BRACCIO](#) (DIST-Politecnico di Torino)

Measures of Adaptation and Community-based Water Management in Mekhe, Senegal

[Rita BICONNE](#) (University of Florence)

Disaster Risk Reduction and Adaptation to Climate Change for Sustainable Local Development in the Sahel

[Vieri TARCHIANI](#) (Ibimet CNR)

Climate Change Adaptation in Dar es Salaam: Local Government Opinions on Possible Interventions

[Riziki SHEMDOE](#) (ARDHI University)

KULTURisk Methodology for Flood Risk Assessment: the Case of Sihl River in Zurich

[Paolo RONCO](#) (Dipartimento DAIS, Università Ca Foscari)

The floods in Niamey, Niger

[Abdou ADAM](#) (Niamey Municipality)

Coping with the Natural Risk in the Turin's Province

[Furio DUTTO](#) (Civil Protection, Provincia di Torino)