

International Conference On African Large

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International conference On African Large River Basins Hydrology

Dakar (Senegal)
26th November -
03rd December 2016



International Conference On African Large River Basins Hydrology

The African Large rivers flow through several climate zones. They drain huge amounts of water in their water system. They play a major role in economic and social development of the countries they pass through. The floodplains of these large basins, their lowlands and deltas are favorite areas for activities related to agriculture, agro-industry, fishing, biodiversity, auto-epuration and tourism. By this way, flood plains and humide zones attract a population whose growth leads to uncontrolled human use, high demands for water in quantity and quality, large risks on water and soil sustainability. Recent climate change has led to reduced rainfall, modifications in land surface use and increase extreme events. These basins have also experienced a profound disruption of the hydrological and environmental balance from the last 50 years. Due to climate variability, river flow are more irregular, causing significant disruption of the natural environment, and threatening major hydraulic structures particularly in the sensitive Sudano-Sahelian zone.

The realization of large dams for food security and for renewable energy causes unfortunately sediment trapping and unbalance of sediment budget. This deficit leads to important marine erosion and a variation of coastlines. These phenomena are added to the effects of the rise of sea water due to global warming.

Given the trans-boundary character of many African Large Rivers, their watersheds are managed by sub-regional organizations. These organizations are also involved in their hydrological monitoring. Despite the importance of the control of flows, and the emphasis given to managing the observation networks, major actions to strengthen and modernize these systems are still needed.

The riverine population of the African Large Rivers experiences recurrent flooding due to climate change (extreme events increased frequency) and increased runoff due to urbanization and changing surface conditions.

Objectives

The aim of this Conference is to bring hydrologists experts from the international scientific community, and in particular FRIEND community, to present their work on watershed hydrology of African Large Rivers and on water resources management problems of these basins related to human activities and climate change, with expected overview from the other large basins in the World.

Topics of the Conference

- **Global change, climate, hydrological regimes, extreme events, databases and observatories**
- **Erosion, sediment transport, water quality, water treatment**
- **Coastal ecohydrology, integrated management of the ocean-continent balance**
- **Water, health and biodiversity in watersheds**
- **Transboundary management of water resources, integrated management of water resources**
- **Water, energy and transport**
- **Models and hydrological modeling, water resource management scenarios**
- **Human-environment relationships and impacts on water resources and socio-economic activities (agriculture, livestock, fisheries, mining, water supply, ...)**
- **Ecohydrology and pedo-transfers: modeling and management of water from the agro-ecosystems to large watersheds.**
- **Low flows, groundwater / surface water relationships, karstic hydrogeology**

Topics are not limited to the above

Even if a particular attention is paid to presentation focusing on the hydrology of African Large River basins, an opening is provided to work on large river basins around of the world. This promotes the exchange of experience in the approaches used in the general problem of large river basins.

The organizing committee will contact journals for publishing set of paper in regular or special issues. Languages of the Conference are French and English.

Side Events

The Conference will be also the opportunity to set-up some

side events:

- ◆ Side-event 1 : 3-days training on "SWAT model for initial users : hydrological modelling of solid and dissolved river transport in a large basin", by José Sanchéz-Pérez (CNRS), Sabine SAUVAGE CNRS) and Didier ORANGE (IRD)
- ◆ Side-event 2 : workshop on "Hydrological indicators and standards", by Abou AMANI (UNESCO)

2016	Mai, 31 th	Deadline for the reception of abstracts
	June, 15 th	Notification to authors for oral or poster communication
	June, 30 th	End of discount registration period
	August/September	Provisional program/Notification to granted authors
	October	Consolidate program. Reception of full papers
	November 26 th	Conference venue
	November 27 th	Side event 2
	November 28 th – 30 th	Conference tenue
December 1 st -3 rd	Side Event 1	

The fees are of 150 euros for scientists from developing countries and 75 euros for students. They are of 200 euros for other participants. This is available until June 15th 2016. After this date, registration will be increased up to 250 euros./300 euros.....

The bank account for fees transfer will be communicated later

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