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# International conference On African Large River Basins Hydrology

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Date de mise en ligne : samedi 26 novembre 2016

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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.

### 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