

Session Program

25-29 Sept 2023



9th FRIEND-Water Global Conference 2023 | Institut Confucius | Université Cheikh Anta Diop, Dakar

ST2 | Climate change & Water resources resilience

Université Cheikh Anta Diop, Dakar, Senegal, Institut Confucius

Tuesday 26 September

11:30

ST2 | Climate change & Water resources resilience: Hazards data treatment & mapping

Session | **Location:** Room 1 | **Conveners:**

Luc DESCROIX, Telesphore BROU, Bastien DIEPPOIS, Aminata NDIAYE, Alain DEZETTER, Soussou SAMBOU, Amadou Thierno GAYE, Mohammed MEDDI

11:30–11:45

Characterization of extreme high water hydroclimatic events in the complex of lower mono-couffo valley

Speaker

Domiho Japhet KODJA

11:45–12:00

Spatio-temporal evolution of rainfall extremes in the city of dakar

Speaker

Franck-Evrard KOFFI

12:00–12:15

Flood risk zone mapping of the Bonoumin-palmeraie watershed using analytic hierarchy process (AHP) and sensitivity tests methods

Speaker

Jean DANUMAH

12:15–12:30

Urban sprawl process in Dakar: impact on runoff and flooding

Speaker

Laurent Pascal M. DIEME

12:30–12:45

Rainfall risks and hydro-agricultural developments in the Aga-Foua-Djilas watershed.

Speaker

Philippe Malick DIONE

13:00

14:30

ST2 | Climate change & Water resources resilience: WRR in basins and littoral environments

Session | **Location:** Amphitheatre | **Conveners:**

Bastien DIEPPOIS, Mohammed MEDDI, Aminata NDIAYE, Alain DEZETTER, Soussou SAMBOU, Luc DESCROIX, Telesphore BROU, Amadou Thierno GAYE

14:30–14:45

Assessment of the hydrological resilience of the n'zi river basin in Côte d'Ivoire using the Budyko framework.

Speaker

Gnemyougou SORO

14:45–15:00

Floods on the Ouémé River basin in Benin: A holistic approach of management

Speaker

Henri Sourou TOTIN VODOUNON

15:00-15:15

Trend Analysis of Low Flows in North Algeria**Speaker**

Hind MEDDI

15:15-15:30

Updating of the intensity-duration-frequency curves (IDF) in the District of Abidjan (Côte d'Ivoire).**Speaker**

Kouakou Christian Junior YAO

15:30-15:45

Impacts of climate variability on the resources of the Gambia River watershed**Speaker**

Mamadou NDIONE

15:45-16:00

Projected water accounts under climate change in the transboundary Volta River Basin**Speaker**

Moctar DEMBELE

16:00

16:30

ST2 | Climate change & Water resources resilience: WRR in basins and littoral environments**Session | Location:** Amphitheatre | **Conveners:**

Aminata NDIAYE, Telesphore BROU, Luc DESCROIX, Amadou Thierno GAYE, Mohammed MEDDI, Soussou SAMBOU, Alain DEZETTER, Bastien DIEPPOIS

16:30-16:45

The resilience of the Saloum islands (Senegal) in the face of the challenges of access to drinking water: what contribution of the Notto-Diosmone-Palmarin (NDP) transfer system in the governance of water resources in an island environment?**Speaker**

Mouhamadou Mansour NGUIRANE

16:45-17:00

Influence of climate change on the water resources in the Central Andes of Argentina**Speaker**

Rodolfo CHRISTIANSEN

17:00-17:15

The role of fishponds in hydrologic regime**Speaker**

Vaclav DAVID

17:15-17:30

Adapting Multireservoir Operation to Long-term Climate Variability Under Climate Change**Speaker**

Vahid ESPANMANESH

17:30-17:40

Wavelet analysis of spatio-temporal variability in surface soil moisture under different landuses in southwestern Nigeria

Speaker

Adedayo ADEWOLE

17:40–17:50

Portrait of the Koular watershed (Central-Western Senegal) to facilitate effective development to curb saline intrusion.

Speaker

Cheikh Tidiane WADE

17:50–18:00

The contribution of the spatial distribution of rainfall for the understanding of the hydrological functioning of the Upper Oum Er-Rbia basin (upstream Machraa Edahk) - Morocco

Speaker

Nadia LAHLOU

18:00

Wednesday 27 September

09:00

ST2 | Climate change & Water resources resilience: Hydrological modelling

Session | **Location:** Room 1 | **Conveners:**

Soussou SAMBOU, Aminata NDIAYE, Telesphore BROU, Luc DESCROIX, Amadou Thierno GAYE, Bastien DIEPPOIS, Mohammed MEDDI, Alain DEZETTER

09:00–09:15

Runoff Sensitivity to Climate Variability and Land Cover Change reveals a second Sahel Hydrological Paradox

Speaker

Elias NKIAKA

09:15–09:30

Mise en place de modèles de prédétermination des débits dans les bassins non jaugés : cas du bassin versant transfrontalier de la Comoé (Côte d'Ivoire - Mali - Burkina - Ghana)

Speaker

Koffi Eugène KOUAKOU

09:30–09:45

Past and future hydrological extremes analysis over the Senegal river basin

Speaker

Mamadou Lamine MBAYE

09:45–10:00

Application du modèle swat pour la modélisation de l'écoulement dans un bassin versant peu jauge en zone soudano- sahélienne (burkina faso)

Speaker

Niang DIAL

10:00–10:15

Analysis of the start and end dates of the rainy season in the Kayanga/Geba and Koliba/Corubal river basins (Guinea - Senegal - Guinea-Bissau)

Speaker

Saly SAMBOU

10:15–10:30

Numerical modelling of flooding in sub-Saharan African cities: Insights from Ouagadougou Area - Burkina Faso

Speaker

Tazen FOWE

10:30

14:30

ST2 | Climate change & Water resources resilience: Hydrometeorological variability & indices

Session | **Location:** Room 1 | **Conveners:**

Aminata NDIAYE, Soussou SAMBOU, Telesphore BROU, Bastien DIEPPOIS, Amadou Thierno GAYE, Luc DESCROIX, Alain DEZETTER, Mohammed MEDDI

14:30–14:45

Investigating past and future changes of hydroclimatic extremes in the Ouémé headwater catchment in West Africa

Speaker

Aymar BOSSA

14:45–15:00

Study of climate variability in the Mountain District of Côte d'Ivoire (1961 to 2020).

Speaker

Coulibaly LEREYHAHA

15:00–15:15

Variabilité interannuelle de la pluviométrie de la zone forestière aux savanes dans le sud-ouest centrafricain

Speaker

Jean Marie DJEBATA

15:15–15:30

Large-Scale Climatic Drivers of Long-term variability in the Frequency of Flood Events across Sub-Saharan Africa

Speaker

Job EKOLU

15:30–15:45

Water Resources Resilience of the « false » West African Water Tower

Speaker

Luc DESCROIX

15:45–16:00

Dry spells in the Ichkeul lake basin (Tunisia): diagnosis of droughts using daily data

Speaker

Majid MATHLOUTHI

16:00

16:30

ST2 | Climate change & Water resources resilience: Hydrometeorological variability & indices

Session | **Location:** Room 1 | **Conveners:**

Alain DEZETTER, Soussou SAMBOU, Amadou Thierno GAYE, Aminata NDIAYE, Telesphore BROU, Bastien DIEPPOIS, Luc DESCROIX, Mohammed MEDDI

16:30–16:45

Effects of climate change on water requirements of orange trees in the Mitidja plain in Algeria

Speaker

Mohammed MEDDI

16:45-17:00

Quantifying and partitioning the uncertainties of climate change impacts on hydrology and hydropower potential under 1.50C and 2.00C Global Warming Levels in the Headwaters of the Benue River Basin - Cameroon**Speaker**

Rodric Merime NONKI

17:00-17:15

Analyse spectrale des précipitations mensuelles dans les régions situées au Centre du Sénégal.**Speaker**

Ibraima TOURE

17:15-17:30

Hydrological modelling with the SWAT tool of the Sandougou watershed in a context of climate change**Speaker**

Ahmadou Bamba DIENG

17:30-17:45

Paradox of water security and governance in the mountain range of fouta djallon**Speaker**

Coura KANE

18:00