

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



Report of Contributions

Contribution ID: 3

Type: **not specified**

Quantifying Environmental Water Use

Tuesday 26 September 2023 11:30 (15 minutes)

Presenter: MILHOUS, Robert (Retired U.S. Geological Survey)

Session Classification: ST1 | Ecohydrology

Contribution ID: 4

Type: **not specified**

Two ecohydrological solutions to reduce urban runoff: examples from Lyon (France) and Quérétaro (Mexico)

Tuesday 26 September 2023 11:45 (15 minutes)

Presenter: BREIL, Pascal (INRAE)

Session Classification: ST1 | Ecohydrology

Contribution ID: 5

Type: **not specified**

Monitoring Coastal Ecosystem Evolution for a Sustainable Blue food security

Wednesday 27 September 2023 09:45 (15 minutes)

Presenter: AMROUNI, Oula (National Institute of Marine Sciences and Technologies of Tunisia)

Session Classification: ST1 | Ecohydrology

Contribution ID: 6

Type: **not specified**

Do the water stable isotopes ($\delta^{18}\text{O}$ and $\delta^2\text{H}$) give insight into the hydrological impact of agroforestry systems? The case of *Faidherbia albida* parklands in the Senegalese Groundnut basin

Tuesday 26 September 2023 12:15 (15 minutes)

Presenter: DIONGUE, Djim M L (UCAD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 7

Type: **not specified**

The effect of soil moisture on the physiological parameters of millet and groundnut during a period of water deficit at the beginning of rainy season.

Tuesday 26 September 2023 12:30 (15 minutes)

Presenter: NDIAYE, Mame Balla (UCAD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 8

Type: **not specified**

The augmented biodiversity to improve the domestic waste water cleaning through Nature Based Solutions

Tuesday 26 September 2023 12:45 (15 minutes)

Presenter: ORANGE, Didier (IRD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 9

Type: **not specified**

Monitoring of shoreline changes using aerial drone photogrammetry in Mediterranean coast

Tuesday 26 September 2023 14:30 (15 minutes)

Presenter: HZAMI, Abderraouf (National Institute of Marine Sciences and Technologies)

Session Classification: ST1 | Ecohydrology

Contribution ID: 10

Type: **not specified**

Impacts of the spatial evolution of salinity conductivity and hydrogen potential (ph) in the fisheries of Lake Nokoue (southern Benin).

Tuesday 26 September 2023 14:45 (15 minutes)

Presenter: TOTIN, Florentin (Laboratoire Pierre PAGNEY Climat Eau Écosystème et Développement - LACEEDE)

Session Classification: ST1 | Ecohydrology

Contribution ID: 11

Type: **not specified**

Characterizing soil hydraulic properties using best method in a semi-arid agrosysteme parc land (the peanut basin of senegal)

Tuesday 26 September 2023 15:00 (15 minutes)

Presenter: FAYE, Waly (UCAD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 12

Type: **not specified**

Smartcleangarden concept to provide a value to domestic waste waters in saving waters in tropical cities

Tuesday 26 September 2023 15:15 (15 minutes)

Presenter: ORANGE, Didier (IRD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 13

Type: **not specified**

Quantifying Environmental Water Use

Tuesday 26 September 2023 15:30 (15 minutes)

Presenter: MILHOUS, Robert (Retired U.S. Geological Survey)

Session Classification: ST1 | Ecohydrology

Contribution ID: 14

Type: **not specified**

Forest-Water Nexus: An Evapotranspiration assessment of the Kafue River Sub-Basin using remote sensing

Tuesday 26 September 2023 15:45 (15 minutes)

Presenter: KAMAMBA, Muyaka (University of Zambia)

Session Classification: ST1 | Ecohydrology

Contribution ID: 15

Type: **not specified**

Study of the continental waters of the Republic of Djibouti: physico-chemical characteristics and biological (Biodiversity).

Tuesday 26 September 2023 16:30 (15 minutes)

Presenter: SOULEIMAN ABDALLAH, Ibrahim (University of Djibouti)

Session Classification: ST1 | Ecohydrology

Contribution ID: 16

Type: **not specified**

The impacts of competing freshwater resource uses on quality : case of the transboundary Falémé River (Sénégal)

Tuesday 26 September 2023 16:45 (15 minutes)

Presenter: DIEDHIOU, Ange Bouramanding (IRD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 17

Type: **not specified**

Immobilization of Phragmites australis peroxidase onto a porous silicon electrode sio 2 /Al to enhance its activity and stability to degrade an azo dye: Amaranth.

Tuesday 26 September 2023 17:00 (15 minutes)

Presenter: HADDAJI, Dalila (Centre of water research and technologies)

Session Classification: ST1 | Ecohydrology

Contribution ID: **18**

Type: **not specified**

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

Tuesday 26 September 2023 11:30 (15 minutes)

Presenter: KODJA, Domiho Japhet (LACEEDE/EDP/UAC)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: **19**

Type: **not specified**

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

Tuesday 26 September 2023 11:45 (15 minutes)

Presenter: KOFFI, Franck-Evrard (UNIVERSITE FELIX HOUPHOUËT-BOIGNY)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 20

Type: **not specified**

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

Tuesday 26 September 2023 12:00 (15 minutes)

Presenter: DANUMAH, Jean (Centre Universitaire de Recherche et d'Application en Télédétection (CURAT))

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 21

Type: **not specified**

Urban sprawl process in Dakar: impact on runoff and flooding

Tuesday 26 September 2023 12:15 (15 minutes)

Presenter: DIEME, Laurent Pascal M. (Université Gaston Berger Saint-Louis)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 22

Type: **not specified**

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

Tuesday 26 September 2023 12:30 (15 minutes)

Presenter: DIONE, Philippe Malick (Université Assane Seck de Ziguinchor)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 23

Type: **not specified**

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

Tuesday 26 September 2023 14:30 (15 minutes)

Presenter: SORO, Gneneyougou (Université NANGUI ABROGOUA)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 24

Type: **not specified**

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

Tuesday 26 September 2023 14:45 (15 minutes)

Presenter: TOTIN VODOUNON, Henri Sourou (University of Parakou)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 25

Type: **not specified**

Trend Analysis of Low Flows in North Algeria

Tuesday 26 September 2023 15:00 (15 minutes)

Presenter: MEDDI, Hind (Higher National School of Hydraulics)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 26

Type: **not specified**

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

Tuesday 26 September 2023 15:15 (15 minutes)

Presenter: YAO, Kouakou Christian Junior (Laboratoire de Science de la Matière de l'Environnement et de l'Energie Solaire (LASMES) - Université Félix Houphouët Boigny)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 27

Type: **not specified**

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

Tuesday 26 September 2023 15:30 (15 minutes)

Presenter: NDIONE, Mamadou (UCAD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 28

Type: **not specified**

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

Tuesday 26 September 2023 15:45 (15 minutes)

Presenter: DEMBELE, Moctar (University of Oxford)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 29

Type: **not specified**

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?

Tuesday 26 September 2023 16:30 (15 minutes)

Presenter: NGUIRANE, Mouhamadou Mansour (UCAD/EDEQUE)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 30

Type: **not specified**

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

Tuesday 26 September 2023 16:45 (15 minutes)

Presenter: CHRISTIANSEN, Rodolfo (Ruhr-Universität Bochum)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 31

Type: **not specified**

The role of fishponds in hydrologic regime

Tuesday 26 September 2023 17:00 (15 minutes)

Presenter: DAVID, Vaclav (Czech Technical University in Prague)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 32

Type: **not specified**

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

Tuesday 26 September 2023 17:15 (15 minutes)

Presenter: ESPANMANESH, Vahid (Laval University)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 33

Type: **not specified**

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

Tuesday 26 September 2023 17:30 (10 minutes)

Presenter: ADEWOLE, Adedayo (Obafemi Awolowo University - Ile-Ife -Osun State Nigeria)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 34

Type: **not specified**

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

Tuesday 26 September 2023 17:40 (10 minutes)

Presenter: WADE, Cheikh Tidiane (UCAD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 35

Type: **not specified**

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

Tuesday 26 September 2023 17:50 (10 minutes)

Presenter: LAHLOU, Nadia (University Mohamed V - Morocco)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 36

Type: **not specified**

The International Sediment Initiative (ISI) and its Case Studies on Sediment Management in River Basins

Tuesday 26 September 2023 16:30 (15 minutes)

Presenter: LIU, Cheng (International Research and Training Center on Erosion and Sedimentation)

Session Classification: ST5 | Large rivers management

Contribution ID: 37

Type: **not specified**

Dynamics of flow in a highly anthropized watershed: application to the coastal basin of the somone for water resource management and planning

Tuesday 26 September 2023 16:45 (15 minutes)

Presenter: KANE, Mamadou (UCAD/EDEQUE)

Session Classification: ST5 | Large rivers management

Contribution ID: **38**

Type: **not specified**

Evolution of rainfall maximum discharge and solid transport in northern Algeria

Tuesday 26 September 2023 17:00 (15 minutes)

Presenter: HALLOUZ, Faiza (Djilali BOUNAAMA University of Khemis Miliana)

Session Classification: ST5 | Large rivers management

Contribution ID: 39

Type: **not specified**

First assessment of dissolved and particulate matter biogeochemistry of the Kasai River

Tuesday 26 September 2023 17:15 (15 minutes)

Presenter: NLANDU WABAKANGHANZI, José (DEPARTMENT OF SOIL PHYSIC AND HYDROLOGY / CONGO ATOMIC ENERGY COMMISSION)

Session Classification: ST5 | Large rivers management

Contribution ID: 40

Type: **not specified**

Transboundary basins: Governance and cooperation among African States

Wednesday 27 September 2023 13:00 (15 minutes)

Presenter: OLUSOLA, Adeyemi (York University)

Session Classification: ST5 | Large rivers management

Contribution ID: 41

Type: **not specified**

Use of reanalysis data to estimate water requirements of major crops in the Senegal River Delta

Tuesday 26 September 2023 11:45 (15 minutes)

Presenter: GASSAMA, Adja Salamata (Université Gaston Berger Saint-Louis)

Session Classification: ST5 | Large rivers management

Contribution ID: 42

Type: **not specified**

Vulnerability of surface water bodies and development of irrigated agriculture: assessment of the ecological quality of the Guiers lake (Senegal)

Tuesday 26 September 2023 12:00 (15 minutes)

Presenter: SAADI, Hikimat (UCAD/EDEQUE)

Session Classification: ST5 | Large rivers management

Contribution ID: 43

Type: **not specified**

Exploring the “Water-Energy-Food-Ecosystems” nexus in the Senegal river basin: an approach combining participatory workshops and hydroeconomic modelling

Tuesday 26 September 2023 12:15 (15 minutes)

Presenter: SEGUIN, Laura (BRGM)

Session Classification: ST5 | Large rivers management

Contribution ID: 44

Type: **not specified**

Assessing hydrological processes and water uses beyond official data in Africa: examples from the Senegal River Basin

Tuesday 26 September 2023 12:30 (15 minutes)

Presenter: BRUCKMANN, Laurent (Université Laval)

Session Classification: ST5 | Large rivers management

Contribution ID: 45

Type: **not specified**

Availability of water resources in the Bango reserve under the anti-salt dam of Diama in the Senegal River delta

Tuesday 26 September 2023 12:45 (15 minutes)

Presenter: BA, Madina (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 46

Type: **not specified**

Opportunities for the Agrarian Dynamics in the West African Floodplains

Tuesday 26 September 2023 14:30 (15 minutes)

Presenter: BOSSA, Aymar (University of Abomey-Calavi)

Session Classification: ST5 | Large rivers management

Contribution ID: 47

Type: **not specified**

Impact of infrastructures on inland water presence within the senegal river basin using gis techniques

Tuesday 26 September 2023 14:45 (15 minutes)

Presenter: THIAM, Mbayang (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 48

Type: **not specified**

Women in transboundary water conflict resolution in the Nile basin: a comparative study between Migingo islands in Kenya and Kagera River in Rwanda.

Tuesday 26 September 2023 15:00 (15 minutes)

Presenter: MUREITHI, Zipporah (Egerton University)

Session Classification: ST5 | Large rivers management

Contribution ID: 49

Type: **not specified**

The impact of climate variability on water resources in the lac de guiers area

Tuesday 26 September 2023 15:15 (15 minutes)

Presenter: SYLLA, Matar (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 50

Type: **not specified**

Pesticides residues accumulation in freshwater and fish in the Guiers Lake basin: Risks for Senegal's strategic water reservoir

Tuesday 26 September 2023 15:30 (15 minutes)

Presenter: BAH, Alousseynou (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 51

Type: **not specified**

Improvement of the classical water balance equation: case study of the tabular middle atlas

Tuesday 26 September 2023 15:45 (15 minutes)

Presenter: HAMMOUD, Yassine (Faculty of Sciences of Rabat - Mohammed V University)

Session Classification: ST5 | Large rivers management

Contribution ID: 52

Type: **not specified**

Risks of overflow and salinization of the marigot of Mbao (Senegal) and their impacts on socio-economic activities.

Tuesday 26 September 2023 17:30 (15 minutes)

Presenter: NDAO, Saidou (Université de Thiès)

Session Classification: ST5 | Large rivers management

Contribution ID: 53

Type: **not specified**

Evaluating the Impact of Climate Variability and Anthropogenic Activities on Streamflow Condition in Large River Basin using Budyko-based Functions

Tuesday 26 September 2023 17:45 (15 minutes)

Presenter: SHAH, Sabab Ali (Aror University of Art Architecture Design and Heritage Sindh)

Session Classification: ST5 | Large rivers management

Contribution ID: 54

Type: **not specified**

Approach of geophysical prospection (1D) to the knowledge of groundwater resources of the Sissili sub-catchment Burkina-Faso

Wednesday 27 September 2023 11:00 (15 minutes)

Presenter: FAYE, Moussa D. (Institut 2IE)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 55

Type: **not specified**

Assessment of the risk of pollution of an area suitable for the establishment of a water point: case of the department of Yamoussoukro (Central Côte d'Ivoire)

Wednesday 27 September 2023 11:15 (15 minutes)

Presenter: MANGOUA, Jules (Université Jean Lorougnon Guédé Daloa)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 56

Type: **not specified**

***The marine intrusion in the Maghreb countries bordering the Mediterranean Sea.**

Wednesday 27 September 2023 11:30 (15 minutes)

Presenter: DJABRI, Larbi (Laboratoire Ressource en Eau & Développement Durable. Université Badji Mokhtar Annaba)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 57

Type: **not specified**

Groundwater salinity in Senegal : geomorphological factors and spatialisation

Wednesday 27 September 2023 11:45 (15 minutes)

Presenter: DESCROIX, Luc (IRD)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 58

Type: **not specified**

Overexploitation of the Maastrichtian aquifer in Senegal

Wednesday 27 September 2023 12:00 (15 minutes)

Presenter: FAYE, Maria (UCAD)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 59

Type: **not specified**

**Functional and statistical study for 3 cycles of the
losses with high temporal resolution (1 hour)
measured in the bed of the Gardon (France)
downstream from Ners (Gard)**

Wednesday 27 September 2023 12:15 (15 minutes)

Presenter: KAMARA, Saliou (Avignon université/UMR ESPACE/CNRS)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 60

Type: **not specified**

Rising groundwater levels and pollution in the thiaroye aquifer of Dakar Senegal: water management in a rapidly growing urban environment

Wednesday 27 September 2023 12:30 (15 minutes)

Presenter: FAYE, Seynabou Cisse (Geology Department Faculty of Sciences & Techniques - UCAD)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 61

Type: **not specified**

Assessment of climate extremes on groundwater in Africa and projection of their medium and long term impacts

Wednesday 27 September 2023 12:45 (15 minutes)

Presenter: AFAMONDJI, Komi Mawulom Claude (Laboratory of Geosciences Water and Environment of the Faculty of Sciences at the Mohammed V University in Rabat)

Session Classification: Joint ST1/ST2/ST3 session

Contribution ID: 62

Type: **not specified**

Urban flooding in West Africa: holistic approaches to urban management in West Africa - the case of the propagation of rainfall floods in Cotonou

Wednesday 27 September 2023 14:30 (15 minutes)

Presenter: AMOUSSOU, Ernest (AcTNAO interdisciplinary team)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 63

Type: **not specified**

Impacts of climate change on river sustainability in a semi-arid agricultural region of South Africa

Wednesday 27 September 2023 14:45 (15 minutes)

Presenter: TANNER, Jane (Rhodes University)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 64

Type: **not specified**

Identifying non water-related leverages to improve water security at the local scale

Wednesday 27 September 2023 15:00 (15 minutes)

Presenter: BARRETEAU, Olivier (INRAE)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 65

Type: **not specified**

Using the water footprint concept to understand the link between water scarcity and violent conflicts in the Central-West Africa sub-region.

Wednesday 27 September 2023 15:15 (15 minutes)

Presenter: NKIAKA, Elias (University of Sheffield)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 66

Type: **not specified**

Charm-EU pilot capstone on climate resilience of farming communities

Wednesday 27 September 2023 15:30 (15 minutes)

Presenter: SORO, Dimitri (Université Félix Houphouët-Boigny)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 67

Type: **not specified**

A teaching unit designed in innovative and active pedagogy to understand and meet the climate resilience transdisciplinary challenges that are facing our territories (south and north) labeled by the UNESCO ICIREWARD center

Wednesday 27 September 2023 15:45 (15 minutes)

Presenter: BORRELL ESTUPINA, Valerie (Université de Montpellier)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 68

Type: **not specified**

Water balance of ponds and their place in the agropastoral society of the Patar commune (Senegal)

Wednesday 27 September 2023 16:30 (15 minutes)

Presenter: DIOUF, Fatou (UCAD)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 69

Type: **not specified**

Transdisciplinarity - a need for the education of people on the Climate Change: the example of GFS in Senegal

Wednesday 27 September 2023 16:45 (15 minutes)

Presenter: ORANGE, Didier (IRD)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 70

Type: **not specified**

An adaptation of a scientific animation tool: the water mural

Wednesday 27 September 2023 17:00 (15 minutes)

Presenter: DECROOCQ, Clémence (Centre international UNESCO ICIREWARD)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 71

Type: **not specified**

Delegation of public drinking water service management - an alternative to the community management model for improving access to water in rural Senegal.

Wednesday 27 September 2023 17:15 (15 minutes)

Presenter: BA, Samba (UCAD/EDEQUE)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 72

Type: **not specified**

Integrated stormwater management in a context of major development of a new city: case of the urban pole of diamniadio (dakar/senegal)

Wednesday 27 September 2023 17:30 (10 minutes)

Presenter: NDIAYE, Bandiougou (UCAD)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 73

Type: **not specified**

Impacts of socio-economic activities on the quality of water resources in the commune of darou khoudoss.

Wednesday 27 September 2023 17:40 (10 minutes)

Presenter: DIATTA, Vieux Malang (UCAD)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 74

Type: **not specified**

Agriculture urbaine genre et résilience climatique à Korhogo (nord de la Côte d'Ivoire)

Wednesday 27 September 2023 17:50 (10 minutes)

Presenter: KOFFI, Yéboué Stéphane Koissy (UNIVERSITE PELEFORO GON COULIBALY DE KORHOGO)

Session Classification: Joint ST1/ST2/ST5 session

Contribution ID: 75

Type: **not specified**

Groundwater quality and risk assessment of heavy metal pollution using water quality index as a communication tool: Evidence from Ejigbo (Lagos-Nigeria)

Wednesday 27 September 2023 09:00 (15 minutes)

Presenter: AKOTAYON, Isaiah (Lagos State University)

Session Classification: ST1 | Ecohydrology

Contribution ID: 76

Type: **not specified**

The characterization of groundwater and assessment of water quality of the Continental Terminal aquifer in Casamance (Senegal): hydrodynamic - multivariate statistic and hydrochemical approach

Wednesday 27 September 2023 09:15 (15 minutes)

Presenter: DIAW, Mouhamet Moustapha (UCAD/EDEQUE/ENIS)

Session Classification: ST1 | Ecohydrology

Contribution ID: 77

Type: **not specified**

Spatiotemporal variability of water quality parameters in the Niger River

Wednesday 27 September 2023 09:30 (15 minutes)

Presenter: BOUBACAR MOUSSA, Moussa (Université Toulouse 3 Paul Sabatier)

Session Classification: ST1 | Ecohydrology

Contribution ID: 78

Type: **not specified**

Rising groundwater levels and pollution in the thiaroye aquifer of Dakar (Senegal): water management in a rapidly growing urban environment

Presenter: Cisse FAYE, Seynabou (UCAD)

Session Classification: ST1 | Ecohydrology

Contribution ID: 79

Type: **not specified**

Linking fish assemblages to hydro-morphology and physico-chemical parameters in the Pendjari River (Benin - West Africa)

Wednesday 27 September 2023 10:00 (15 minutes)

Presenter: AHOUANSOU MONTCHO, Simon (School of Aquaculture - National University of Agriculture (UNA))

Session Classification: ST1 | Ecohydrology

Contribution ID: 80

Type: **not specified**

Application of principal component analysis (PCA) for the physicochemical and bacteriological characterization of a tropical hydro system waters: Case of n'djili river watershed (DRC).

Wednesday 27 September 2023 10:15 (15 minutes)

Presenter: SANI BOUBACAR GOUBE GAOH, Zouera (Centre de Recherche en Ressources en eaux du Bassin du Congo - Ecole Regionale de l'Eau - Universite de Kinshasa)

Session Classification: ST1 | Ecohydrology

Contribution ID: 81

Type: **not specified**

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

Wednesday 27 September 2023 09:00 (15 minutes)

Presenter: NKIAKA, Elias (University of Sheffield)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 82

Type: **not specified**

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)

Wednesday 27 September 2023 09:15 (15 minutes)

Presenter: KOUAKOU, Koffi Eugène (INP-HB YAMOOUSSOUKRO)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 83

Type: **not specified**

Past and future hydrological extremes analysis over the Senegal river basin

Wednesday 27 September 2023 09:30 (15 minutes)

Presenter: MBAYE, Mamadou Lamine (Université Assane SECK de Ziguinchor)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 84

Type: **not specified**

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

Wednesday 27 September 2023 09:45 (15 minutes)

Presenter: DIAL, Niang (Institut International d'Ingenierie de l'Eau de l'Environnement (2iE))

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 85

Type: **not specified**

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

Wednesday 27 September 2023 10:00 (15 minutes)

Presenter: SAMBOU, Saly (UCAD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 86

Type: **not specified**

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

Wednesday 27 September 2023 10:15 (15 minutes)

Presenter: FOWE, Tazen (International Institute for Water and Environmental Engineering)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 87

Type: **not specified**

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

Wednesday 27 September 2023 17:15 (15 minutes)

Presenter: DIENG, Ahmadou Bamba (UCAD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: **88**

Type: **not specified**

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

Wednesday 27 September 2023 17:30 (15 minutes)

Presenter: KANE, Coura (Université Alioune Diop de Bambey)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 89

Type: **not specified**

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

Wednesday 27 September 2023 14:30 (15 minutes)

Presenter: BOSSA, Aymar (University of Abomey-Calavi)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 90

Type: **not specified**

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

Wednesday 27 September 2023 14:45 (15 minutes)

Presenter: LEREYAHA, Coulibaly (UnIversité de MAN)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 91

Type: **not specified**

Variabilite interannuelle de la pluviometrie de la zone forestiere aux savanes dans le sud-ouest centrafricain

Wednesday 27 September 2023 15:00 (15 minutes)

Presenter: DJEBATA, Jean Marie (École Normale Supérieure (ENS) de Bangui)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 92

Type: **not specified**

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

Wednesday 27 September 2023 15:15 (15 minutes)

Presenter: EKOLU, Job (Coventry University)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 93

Type: **not specified**

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

Wednesday 27 September 2023 15:30 (15 minutes)

Presenter: DESCROIX, Luc (IRD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 94

Type: **not specified**

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

Wednesday 27 September 2023 15:45 (15 minutes)

Presenter: MATHLOUTHI, Majid (LRSTE)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 95

Type: **not specified**

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

Wednesday 27 September 2023 16:30 (15 minutes)

Presenter: MEDDI, Mohammed (Higher National School of Hydraulics)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 96

Type: **not specified**

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

Wednesday 27 September 2023 16:45 (15 minutes)

Presenter: NONKI, Rodric Merime (Laboratory for Environmental Modeling and Atmospheric Physics (LEMAP) - Department of Physics - Faculty of Sciences - University of Yaoundé 1)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 97

Type: **not specified**

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

Wednesday 27 September 2023 17:00 (15 minutes)

Presenter: TOURE, Ibraima (UCAD)

Session Classification: ST2 | Climate change & Water resources resilience

Contribution ID: 98

Type: **not specified**

HAMR: drought monitoring system

Wednesday 27 September 2023 09:00 (15 minutes)

Presenter: VIZINA, Adam (T.G.Masaryk Water Research Institution)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: 99

Type: **not specified**

Valorization of meteorological archives in Côte d'Ivoire

Wednesday 27 September 2023 09:15 (15 minutes)

Presenter: PATUREL, Jean-Emmanuel (IRD)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **100**

Type: **not specified**

Hydrosos: Implementing a global Hydrological Status and Outlook System from the bottom up

Wednesday 27 September 2023 09:30 (15 minutes)

Presenter: BARKER, Lucy (UK Centre for Ecology & Hydrology (UKCEH))

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **101**

Type: **not specified**

Innovative approaches in water resources status and forecasting –a global perspective

Wednesday 27 September 2023 09:45 (15 minutes)

Presenter: RICKARDS, Nathan (UK Centre for Ecology & Hydrology)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **102**

Type: **not specified**

Facilitating access to global runoff data: API and tools for GRDC data sets

Wednesday 27 September 2023 10:00 (15 minutes)

Presenter: RECKNAGEL, Thomas (Global Runoff Data Cenrte (GRDC))

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **103**

Type: **not specified**

Quantifying the uncertainty of ADCP discharge measurements through inter-comparisons

Wednesday 27 September 2023 11:00 (15 minutes)

Presenter: LE COZ, Jérôme (INRAE)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **104**

Type: **not specified**

Open and Free Datasets for Hydrology Research: Insights Challenges and Opportunities

Wednesday 27 September 2023 11:15 (15 minutes)

Presenter: NEWCOMER, Michelle (Lawrence Berkeley National Laboratory)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: 105

Type: **not specified**

***Dynamique territoriale autour de l'activité minière artisanale et des ressources en eau en Afrique de l'Ouest : une réflexion transdisciplinaire pour des solutions durables**

Wednesday 27 September 2023 11:30 (15 minutes)

Presenter: NGOM, Ndeye Marame (Université Cheikh Anta Diop de Dakar)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **106**

Type: **not specified**

Socio-economic assessment of access and management of drinking water in island areas: case of the island of Niodior (Fatick-Senegal)

Wednesday 27 September 2023 11:45 (15 minutes)

Presenter: NLANG, Oumou (Institut des Sciences de l'Environnement/UCAD/DAKAR/SENEGAL)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **107**

Type: **not specified**

A FRIEND-Water perspective on Bridging Data Knowledge Gaps in Hydrology

Wednesday 27 September 2023 10:15 (5 minutes)

Presenter: DIETRICH, Stephan (ICWRGC)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **108**

Type: **not specified**

The Global Runoff Database –A unique archive for river discharge data

Wednesday 27 September 2023 10:20 (5 minutes)

Presenter: RECKNAGEL, Thomas (Global Runoff Data Centre (GRDC))

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **109**

Type: **not specified**

ROBIN - A Reference Observatory of Basins for international hydrological climate change detection

Wednesday 27 September 2023 12:00 (15 minutes)

Presenter: HANNAFORD, Jamie (UK Centre for Ecology & Hydrology)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: **110**

Type: **not specified**

New time series of gridded climatic variables for Czechia and their potential for nationwide hydrology

Wednesday 27 September 2023 12:15 (15 minutes)

Presenter: LEDVINKA, Ondrej (Czech Hydrometeorological Institute)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: 111

Type: **not specified**

The Global Terrestrial Network - Hydrology (GTN-H): a unique source of global hydrological observations

Wednesday 27 September 2023 12:30 (15 minutes)

Presenter: DIETRICH, Stephan (ICWRGC)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: 112

Type: **not specified**

The International Soil Moisture Network (ISMN): A permanent service for delivering long-term in situ soil moisture data

Wednesday 27 September 2023 12:45 (15 minutes)

Presenter: KORRES, Wolfgang (Federal Institute of Hydrology)

Session Classification: ST3 | Bridging the data-knowledge gaps in hydrology

Contribution ID: 113

Type: **not specified**

Apport des outils spatiaux dans la compréhension de paramètres hydrologiques dans le bassin versant Djiguimar

Wednesday 27 September 2023 14:30 (15 minutes)

Presenter: FATY, Abdoulaye (UCAD)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 114

Type: **not specified**

***Application of remote sensing to water quality parameters over lakes using time series from Sentinel-2 and Landsat-8/9. Study case: laguna grande - bíobio - chile**

Wednesday 27 September 2023 14:45 (15 minutes)

Presenter: YEPEZ, Santiago (University of Concepción)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 115

Type: **not specified**

Satellite-based monthly surface water storage database for the Congo basin from 1992-2015

Wednesday 27 September 2023 15:00 (15 minutes)

Presenter: KITAMBO, Benjamin (Laboratoire d'études en géophysique et océanographie spatiales (LEGOS))

Session Classification: ST4 | Spatial hydrology

Contribution ID: **116**

Type: **not specified**

Characterization of flooding in the Mono basin with the HEC RAS model

Wednesday 27 September 2023 15:15 (15 minutes)

Presenter: AMOUSSOU, Ernest (Université de Parakou)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 117

Type: **not specified**

Flood risk management and local development in the Dyonkoto - Boubon strip in Niger: remote sensing approach

Wednesday 27 September 2023 15:30 (15 minutes)

Presenter: KIARI FOUGOU, Hadiza (Université de Diffa - Niger)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 118

Type: **not specified**

***Modeling freshwater discharge of poorly monitored African rivers using remote sensing-based land surface model**

Wednesday 27 September 2023 15:45 (15 minutes)

Presenter: AKPOTI, Komlavi (International Water management Institute)

Session Classification: ST4 | Spatial hydrology

Contribution ID: **119**

Type: **not specified**

Harnessing spatial patterns of satellite data for multivariate hydrological model calibration

Wednesday 27 September 2023 16:30 (15 minutes)

Presenter: DEMBELE, Moctar (University of Oxford)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 120

Type: **not specified**

Contribution of remote sensing to flood hazard mapping in the Riviera-Bonoumin watershed in the District of Abidjan (Ivory Coast)

Wednesday 27 September 2023 16:45 (15 minutes)

Presenter: N'GUESSAN, Bi Vami Hermann (Centre Universitaire de Recherche et d'Application en Télédétection (CURAT) - Université Félix Houphouët-Boigny)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 121

Type: **not specified**

Evaluation of global gridded rainfall products in the main hydrosystems of Senegal: Casamance - Gambia - Senegal

Wednesday 27 September 2023 17:00 (15 minutes)

Presenter: GOUDIABY, Omar (Université Gaston Berger Saint-Louis)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 122

Type: **not specified**

Analysis of the performance of satellite products for estimating evapotranspiration in the Senegal River Delta

Wednesday 27 September 2023 17:15 (15 minutes)

Presenter: NDIAYE, Papa Malick (Université Gaston Berger Saint-Louis)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 123

Type: **not specified**

Groundwater Potential Zone mapping using Geographical informationsystem by Fuzzy- Analytic Hierarchy Process in humid area: case study (Ghar El Melh (North Eastern of Tunisia))

Wednesday 27 September 2023 17:30 (15 minutes)

Presenter: KOUAIED, Amal (Université Tunis El Manar (faculté des sciences de Tunis El Manar))

Session Classification: ST4 | Spatial hydrology

Contribution ID: 124

Type: **not specified**

Groundwater Recharge Zone Mapping Using GIS-based Multi-Criteria Evaluation and Analytical Hierarchy Process: A Case Study of Trarza Aquifer (Mauritania)

Wednesday 27 September 2023 17:45 (15 minutes)

Presenter: BA, Aguibou (UCAD)

Session Classification: ST4 | Spatial hydrology

Contribution ID: 125

Type: **not specified**

Variability of the Senegal River floodplain under climate change scenarios

Wednesday 27 September 2023 11:00 (15 minutes)

Presenter: OGILVIE, Andrew (IRD)

Session Classification: ST5 | Large rivers management

Contribution ID: 126

Type: **not specified**

Sensitivity of the GR4J model to different estimating methods of potential evapotranspiration

Wednesday 27 September 2023 11:15 (15 minutes)

Presenter: BODIAN, Ansoumana (Université Gaston Berger Saint-Louis)

Session Classification: ST5 | Large rivers management

Contribution ID: 127

Type: **not specified**

Satellite-based Rainfall Estimates to Simulate Daily Streamflow Using a Hydrological Model over Gambia Watershed

Wednesday 27 September 2023 11:30 (15 minutes)

Presenter: FATY, Bakary (Direction de la Gestion et de la Planification des Ressources en Eau)

Session Classification: ST5 | Large rivers management

Contribution ID: 128

Type: **not specified**

Open earth observation data for water accounting in large river basins: case of the Volta River basin in West Africa

Wednesday 27 September 2023 11:45 (15 minutes)

Presenter: DEMBELE, Moctar (International Water Management Institute (IWMI))

Session Classification: ST5 | Large rivers management

Contribution ID: 129

Type: **not specified**

The influence of climate change on the spatial distribution of precipitation in the basin of the Transboundary Zeravshan River Basin in Central Asia and the formation of the river Runoff

Wednesday 27 September 2023 12:00 (15 minutes)

Presenter: DANGOURA, Mouhamed (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 130

Type: **not specified**

Projected changes in the rainfall annual cycle over the Senegal River Basin using CMIP5 bias-corrected simulations

Wednesday 27 September 2023 12:15 (15 minutes)

Presenter: DIAKHATE, Moussa (Université Amadou Mahtar MBOW)

Session Classification: ST5 | Large rivers management

Contribution ID: 131

Type: **not specified**

Effect of the SWATPLUS input parameters on the modeling of the Senegal River flow at the Bafing - Bakoye - Faleme

Wednesday 27 September 2023 12:30 (15 minutes)

Presenter: SANE, Mousse Landing (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: 132

Type: **not specified**

First approaches for the development of the SWAT model in the Senegal River Basin

Wednesday 27 September 2023 12:45 (15 minutes)

Presenter: DIA, Abou (UCAD)

Session Classification: ST5 | Large rivers management

Contribution ID: **133**

Type: **not specified**

Keynote

Tuesday 26 September 2023 10:30 (30 minutes)

Presenter: Prof. ZALEWSKI, Maciej

Session Classification: Opening ceremony

Contribution ID: **134**

Type: **not specified**

Keynote

Tuesday 26 September 2023 10:00 (30 minutes)

Presenter: Prof. GAYE, Cheikh Bécaye

Session Classification: Opening ceremony