











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

08:00 08:30 09:00	CAD Confucius A	mphitheatre	UCAD Confucius Amphitheatre	UCAD Confucius	UCAD	UCAD	UCAD	UCAD		
08:30				Room 1	Confucius Room 2	Confucius Amphitheatre	Confucius Room 1	Confucius Room 2	UCAD Confucius Amphitheatre	UCAD Confucius Amphitheatre
09:00			Regis	tration desk & Welco	ome	Regi	stration desk & Welc	ome		
						ST3   Bridging				
09:30			Opening ceremony			the data- knowledge gaps	ST2 I Climate change & WRR	ST1 I Ecohydrology	IHP-IX workshop	23 UPH/IAHS
10:00	-					in hydrology	change & with	Leonyarology		
10:30	-		Keynote speakers				Coffee break		Coffee break	Coffee break
11:00	-			Coffee break						
11:30	-					ST5 - Large rivers	Joint	ST3   Bridging the		
12:00	-		ST1 I	ST2 I Climate	ST5 - Large rivers	management	ST1/ST2/ST3 session	data-knowledge gaps in hydrology	IHP-IX workshop	Closing ceremony
12:30	Training		Ecohydrology	change & WRR	management			0.1.		
	ecohydrology									
13:30			Lunch break			Lunch break			Lunch break (to be paid by	Lunch break (to be paid by
14:00	-		(to be po	aid by participants)		(to be paid by participants		participants)	participants)	
14:30										
15:00			ST2 I Climate change & WRR	ST1 I Ecohydrology	ST5 - Large rivers management	ST4 I Spatial hydrology	ST2 I Climate change & WRR	Joint ST1/ST2/ST5	IHP-IX workshop	
15:30			change & Willi	Lconydrology	management	nyurology	change & with	Session		
16:00		Registration desk		Coffee break			Coffee break		Coffee break	
16:30		ucsa								Training Early Warning Systems
17:00			ST2 I Climate change & WRR	ST1 I Ecohydrology	ST5 - Large rivers management	ST4 I Spatial hydrology	ST2 I Climate change & WRR	Joint ST1/ST2/ST5	IHP-IX workshop	Systems
π	Training Early Warning Systems		change & whn	Econyarology	management	llydrology	Cliange & Whn	Session		
18:00	running systems					FIGCC internal				
18:30	-		Icebreaking cocktail			meeting				
19:00										
19:30										
20:00									Gala dinner	
20:30										











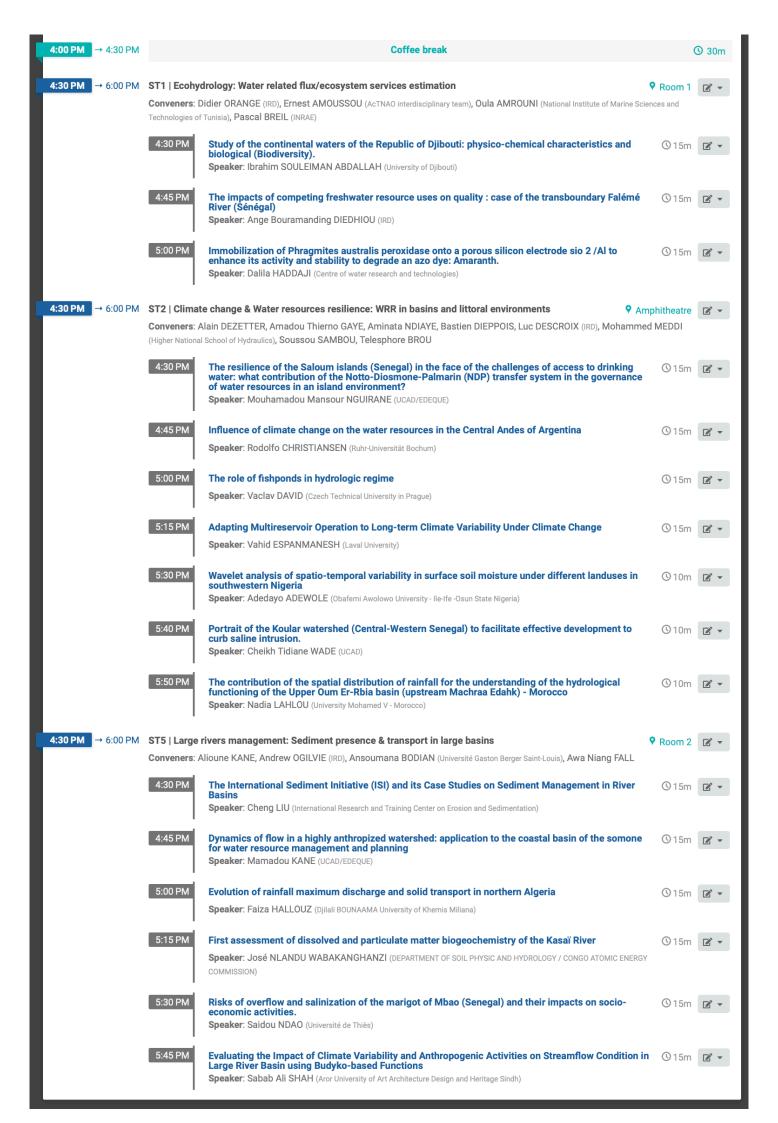


## 9th FRIEND-Water Global Conference 2023 | Institut Confucius | Université Cheikh Anta Diop, Dakar

	Tuesday, September 26		<b>=</b> -
<b>8:00 AM</b> → 9:00 AM	Registration desk & Welcome		<b>(</b> ) 1h
<b>9:00 AM</b> → 10:00 AM	Opening ceremony: Welcome address	hitheatre	€ •
<b>10:00 AM</b> → 11:00 AM	Opening ceremony: Keynote presentations	hitheatre	€ •
	10:00 AM Keynote Speaker: Prof. Cheikh Bécaye Gaye	<b>③</b> 30m	€ •
	10:30 AM Keynote Speaker: Prof. Maciej Zalewski	③30m	€ •
<b>11:00 AM</b> → 11:30 AM	Coffee break	(	③ 30m
<b>11:30 AM</b> → 1:00 PM	ST1   Ecohydrology: Dual regulation  Conveners: Didier ORANGE (IRD), Ernest AMOUSSOU (Université Parakou), Maciej ZALEWSKI (European Regional Centre for Ecohydrol AMROUNI (National Institute of Marine Sciences and Technologies of Tunisia), Pascal BREIL (INRAE)	ohitheatre ogy), Oula	€* ▼
	11:30 AM Quantifying Environmental Water Use Speaker: Robert MILHOUS (Retired U.S. Geological Survey)	<b>③</b> 15m	€ •
	Two ecohydrological solutions to reduce urban runoff: examples from Lyon (France) and Quérétaro (Mexico)  Speaker: Pascal BREIL (INRAE)	<b>③</b> 15m	₽ *
	12:00 PM Monitoring Coastal Ecosystem Evolution for a Sustainable Blue food security  Speaker: Oula AMROUNI (National Institute of Marine Sciences and Technologies of Tunisia)	<b>○</b> 15m	€ *
	12:15 PM  Do the water stable isotopes (6 18 O and 6 2 H) give insight into the hydrological impact of agroforestry systems? The case of Faidherbia albida parklands in the Senegalese Groundnut basin  Speaker: Djim M L DIONGUE (UCAD)	<b>③</b> 15m	€ *
	12:30 PM  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.  Speaker: Mame Balla NDIAYE (UCAD)	<b>③</b> 15m	€ *
	12:45 PM  The augmented biodiversity to improve the domestic waste water cleaning through Nature Based Solutions Speaker: Didier ORANGE (IRD)	<b>③</b> 15m	€* ▼
<b>11:30 AM</b> → 1:00 PM	ST2   Climate change & Water resources resilience: Hazards data treatment & mapping  Conveners: Alain DEZETTER, Amadou Thierno GAYE, Aminata NDIAYE, Bastien DIEPPOIS, Luc DESCROIX (IRD), Mohamme (Higher National School of Hydraulics), Soussou SAMBOU, Telesphore BROU	Room 1 d MEDDI	₹ •
	11:30 AM  Characterization of extreme high water hydroclimatic events in the complex of lower mono-couffo valley  Speaker: Domiho Japhet KODJA (LACEEDE/EDP/UAC)	<b>○</b> 15m	€* ▼

	11:45 AM	Spatio-temporal evolution of rainfall extremes in the city of dakar  Speaker: Franck-Evrard KOFFI (UNIVERSITE FELIX HOUPHOUËT-BOIGNY)	<b>③</b> 15m	☑ •
	12:00 PM	Flood risk zone mapping of the Bonoumin-palmeraie watershed using analytic hierarchy process (AHP) and sensitivity tests methods  Speaker: Jean DANUMAH (Centre Universitaire de Recherche et d'Application en Télédétection (CURAT))	<b>○</b> 15m	€ →
	12:15 PM	Urban sprawl process in Dakar: impact on runoff and flooding  Speaker: Laurent Pascal M. DIEME (Université Gaston Berger Saint-Louis)	<b>⊙</b> 15m	₩ ▼
	12:30 PM	Rainfall risks and hydro-agricultural developments in the Aga-Foua-Djilas watershed.  Speaker: Philippe Malick DIONE (Université Assane Seck de Ziguinchor)	<b>○</b> 15m	€ •
<b>11:30 AM</b> → 1:00 PM	ST5   Large r	ivers management: Supporting shared water uses in large & transboundary basins	Room 2	€ -
		lioune KANE, Andrew OGILVIE (IRD), Ansoumana BODIAN (Université Gaston Berger Saint-Louis), Awa Niang FALL	, NOOIII Z	
	11:30 AM	Transboundary basins: Governance and cooperation among African States Speaker: Adeyemi OLUSOLA (York University)	<b>©</b> 15m	<b>3</b> •
	11:45 AM	Use of reanalysis data to estimate water requirements of major crops in the Senegal River Delta Speaker: Adja Salamata GASSAMA (Université Gaston Berger Saint-Louis)	<b>⊙</b> 15m	€ •
	12:00 PM	Vulnerability of surface water bodies and development of irrigated agriculture: assessment of the ecological quality of the Guiers lake (Senegal)  Speaker: Hikimat SAADI (UCAD/EDEQUE)	<b>⊙</b> 15m	₹ ▼
	12:15 PM	Exploring the "Water-Energy-Food-Ecosystems" nexus in the Senegal river basin: an approach combining participatory workshops and hydroeconomic modelling Speaker: Laura SEGUIN (BRGM)	<b>③</b> 15m	₩ *
	12:30 PM	Assessing hydrological processes and water uses beyond official data in Africa: examples from the Senegal River Basin  Speaker: Laurent BRUCKMANN (Université Laval)	<b>⊙</b> 15m	₹ ▼
	12:45 PM	Availability of water resources in the Bango reserve under the anti-salt dam of Diama in the Senegal River delta  Speaker: Madina BA (UCAD)	<b>○</b> 15m	€ -
<b>1:00 PM</b> → 2:30 PM		Lunch break	<b>O</b> 1	1h 30m
2:30 PM → 4:00 PM	Conveners: Did	ology: Dual regulation dier ORANGE (IRD), Ernest AMOUSSOU (AcTNAO interdisciplinary team), Oula AMROUNI (National Institute of Marine Scie unisia), Pascal BREIL (INRAE)	Room 1	€ ▼
		Monitoring of shoreline changes using aerial drone photogrammetry in Mediterranean coast  Speaker: Abderraouf HZAMI (National Institute of Marine Sciences and Technologies)	NI (National Institute of Marine Sciences and	₹ •
		Impacts of the spatial evolution of salinity conductivity and hydrogen potential (ph) in the fisheries of Lake Nokoue (southern Benin).  Speaker: Florentin TOTIN (Laboratoire Pierre PAGNEY Climat Eau Écosystème et Développement - LACEEDE)	<b>f ○</b> 15m	€ -
		Caracterizing soil hydraulic properties using best method in a semi-arid agrosysteme parc land (the peanut basin of senegal)  Speaker: Waly FAYE (UCAD)	<b>③</b> 15m	€ +

	3:15 PM	Smartcleangarden concept to provide a value to domestic waste waters in saving waters in tropical cities  Speaker: Didier ORANGE (IRD)	<b>③</b> 15m	€ •
	3:30 PM	Quantifying Environmental Water Use	<b>③</b> 15m	€ *
		Speaker: Robert MILHOUS (Retired U.S. Geological Survey)		
	3:45 PM	Forest-Water Nexus: An Evapotranspiration assessment of the Kafue River Sub-Basin using remote sensing Speaker: Muyaka KAMAMBA (University of Zambia)	<b>○</b> 15m	₹ ▼
<b>2:30 PM</b> → 4:00 PM	ST2   Climat	te change & Water resources resilience: WRR in basins and littoral environments	hitheatre	₹ •
		Alain DEZETTER, Amadou Thierno GAYE, Aminata NDIAYE, Bastien DIEPPOIS, Luc DESCROIX (IRD), Mohammed I School of Hydraulics), Soussou SAMBOU (UCAD), Telesphore BROU	MEDDI	
	2:30 PM	Assessment of the hydrological resilience of the n'zi river basin in Côte d'Ivoire using the Budyko framework.  Speaker: Gneneyougou SORO (Université NANGUI ABROGOUA)	<b>③</b> 15m	€ *
	2:45 PM	Floods on the Ouémé River basin in Benin: A holistic approach of management	③15m	₹ •
		Speaker: Henri Sourou TOTIN VODOUNON (University of Parakou)		
	3:00 PM	Trend Analysis of Low Flows in North Algeria	<b>○</b> 15m	€ +
		Speaker: Hind MEDDI (Higher National School of Hydraulics)		
	3:15 PM	Updating of the intensity-duration-frequency curves (IDF) in the District of Abidjan (Côte d'Ivoire).	<b>③</b> 15m	€ +
		Speaker: Kouakou Christian Junior YAO (Laboratoire de Science de la Matière de l'Environnement et de l'Energie Solaire (LASN Université Félix Houphouët Boigny)		
	3:30 PM	Impacts of climate variability on the resources of the Gambia River watershed  Speaker: Mamadou NDIONE (UCAD)	<b>③</b> 15m	<b>♂</b> ▼
	3:45 PM	Projected water accounts under climate change in the transboundary Volta River Basin Speaker: Moctar DEMBELE (University of Oxford)	<b>③</b> 15m	<b>*</b> •
2:30 PM → 4:00 PM	ST5   Large	rivers management: Supporting shared water uses in large & transboundary basins	Room 2	<b>*</b> •
	Conveners: /	Alioune KANE, Andrew OGILVIE (IRD), Ansoumana BODIAN (Université Gaston Berger Saint-Louis), Awa Niang FALL		
	2:30 PM	Opportunities for the Agrarian Dynamics in the West African Floodplains  Speaker: Aymar BOSSA (University of Abomey-Calavi)	<b>③</b> 15m	<b>♂</b> ▼
	2:45 PM	Impact of infrastructures on inland water presence within the senegal river basin using gis techniques  Speaker: Mbayang THIAM (UCAD)	<b>③</b> 15m	₹ *
	3:00 PM	Women in transboundary water conflict resolution in the nile basin: a comparative study between migingo islands in kenya and kagera river in rwanda.  Speaker: Zipporah MUREITHI (Egerton University)	<b>③</b> 15m	€ *
	3:15 PM	The impact of climate variability on water resources in the lac de guiers area Speaker: Matar SYLLA (UCAD)	<b>○</b> 15m	€ ▼
	3:30 PM	Pesticides residues accumulation in freshwater and fish in the Guiers Lake basin: Risks for Senegal's strategic water reservoir  Speaker: Alousseynou BAH (UCAD)	<b>③</b> 15m	₹ ▼
	3:45 PM	Improvement of the classical water balance equation: case study of the tabular middle atlas  Speaker: Yassine HAMMOUD (Faculty of Sciences of Rabat - Mohammed V University)	<b>③</b> 15m	€ •















## 9th FRIEND-Water Global Conference 2023

	Wednesday, September 27		<b>=</b>
<b>8:30 AM</b> → 9:00 AM	Registration desk & Welcome © 30m	Centre Cor	nfucius
<b>9:00 AM</b> → 10:30 AM	ST1   Ecohydrology: Water quality relation to land use  Conveners: Didier ORANGE (IRD), Ernest AMOUSSOU (AcTNAO interdisciplinary team), Oula AMROUNI (National Institute of Marine Statement of Tunisia), Pascal BREIL (INRAE)	Room 2	€ -
	9:00 AM  Groundwater quality and risk assessment of heavy metal pollution using water quality index as a communication tool: Evidence from Ejigbo (Lagos-Nigeria)  Speaker: Isaiah AKOTEYON (Lagos State University)	<b>○</b> 15m	€ +
	9:15 AM  The characterization of groundwater and assessment of water quality of the Continental Terminal aquifer in Casamance (Senegal): hydrodynamic - multivariate statistic and hydrochemical approach  Speaker: Mouhamet Moustapha DIAW (UCAD/EDEQUE/ENIS)	<b>○</b> 15m	€ -
	9:30 AM Spatiotemporal variability of water quality parameters in the Niger River Speaker: Moussa BOUBACAR MOUSSA (Université Toulouse 3 Paul Sabatier)	<b>③</b> 15m	₹ •
	9:45 AM  Linking fish assemblages to hydro-morphology and physico-chemical parameters in the Pendjari River (Benin - West Africa)  Speaker: Simon AHOUANSOU MONTCHO (School of Aquaculture - National University of Agriculture (UNA))	<b>⊙</b> 15m	₹ ▼
	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).  Speaker: Zouera SANI BOUBACAR GOUBE GAOH (Centre de Recherche en Ressources en eaux du Bassin du Congo - Regionale de l'Eau - Universite de Kinshasa)	<b>○</b> 15m Ecole	┏ ▼
9:00 AM → 10:30 AM	ST2   Climate change & Water resources resilience: Hydrological modelling  Conveners: Alain DEZETTER, Amadou Thierno GAYE, Aminata NDIAYE, Bastien DIEPPOIS, Luc DESCROIX (IRD), Mohamm (Higher National School of Hydraulics), Soussou SAMBOU, Telesphore BROU	Room 1	₽ →
	9:00 AM  Runoff Sensitivity to Climate Variability and Land Cover Change reveals a second Sahel Hydrological Paradox  Speaker: Elias NKIAKA (University of Sheffield)	<b>③</b> 15m	€ *
	9:15 AM  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 (INP-HB YAMOUSSOUKRO)	<b>○</b> 15m	₹ ₹
	9:30 AM Past and future hydrological extremes analysis over the Senegal river basin Speaker: Mamadou Lamine MBAYE (Université Assane SECK de Ziguinchor)	<b>③</b> 15m	€ +
	9:45 AM  Application du modèle swat pour la modélisation de l'ecoulement dans un bassin versant peu jauge en zone soudano- sahélienne (burkina faso)  Speaker: Niang DIAL (Institut International d'Inginierie de l'Eau de l'Environnement (2iE))	● <b>③</b> 15m	€ +
	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 (UCAD)	<b>○</b> 15m	€ +
	10:15 AM  Numerical modelling of flooding in sub-Saharan African cities: Insights from Ouagadougou Area - Burkina Faso  Speaker: Tazen FOWE (International Institute for Water and Environmental Engineering)	∙ <b>©</b> 15m	€ •

9:00 AM → 10:30 AM	ST3   Bridging the data-knowledge gaps in hydrology: Development of climate Conveners: Abdoulaye FATY (UCAD), Jean-Emmanuel PATUREL (IRD), Jérôme LE COZ		re ☑ ▼
	9:00 AM HAMR: drought monitoring system  Speaker: Adam VIZINA (T.G.Masaryk Water Research Institution)	<b>©</b> 15	m <b>∠ •</b>
	9:15 AM  Valorization of meteorological archives in Côte d'Ivoire  Speaker: Jean-Emmanuel PATUREL (IRD)	◎15	m <b>∠ ·</b>
	9:30 AM Hydrosos: Implementing a global Hydrological Status and Outloo Speaker: Lucy BARKER (UK Centre for Ecology & Hydrology (UKCEH))	k System from the bottom up	m <b>∠ •</b>
	9:45 AM Innovative approaches in water resources status and forecasting Speaker: Nathan RICKARDS (UK Centre for Ecology & Hydrology)	- a global perspective © 15	m 🕜 🔻
	10:00 AM  Facilitating access to global runoff data: API and tools for GRDC data sets  Speaker: Thomas RECKNAGEL (Global Runoff Data Cente (GRDC))	C data sets © 15	m 🕜 🔻
	10:15 AM A FRIEND-Water perspective on Bridging Data Knowledge Gaps Speaker: Stephan DIETRICH (ICWRGC)	in Hydrology © 5	m 🕜 🔻
	The Global Runoff Database – A unique archive for river dischart Speaker: Thomas RECKNAGEL (Global Runoff Data Centre (GRDC))	rge data ③ 5	m <b>♂</b> ▼
<b>10:30 AM</b> → 11:00 AM	Coffee break		<b>○</b> 30m
11:00 AM → 1:00 PM	Joint ST1/ST2/ST3 session: Understanding and protecting Groundwater resou Conveners: Aristide DOUAGUI (Université Nangui Abrogoua), Serigne FAYE (UCAD)	rces PRoom	1 🕝 🔻
	Approach of geophysical prospection (1D) to the knowledge of sissili sub-catchment Burkina-Faso Speaker: Moussa D. FAYE (Institut 2IE)	groundwater resources of the © 15	m <b>∠ →</b>
	Assessment of the risk of pollution of an area suitable for the exof the department of Yamoussoukro (Central Côte d'Ivoire)  Speaker: Jules MANGOUA (Université Jean Lorougnon Guédé Daloa)	stablishment of a water point: case ① 15	m <b>♂</b> ▼
	The marine intrusion in the Maghreb countries bordering the Mediterranean Sea.  Speaker: Larbi DJABRI (Laboratoire Ressource en Eau & Développement Durable. Université Badji Mokhtar Annaba)		m 🕜 🔻
	Groundwater salinity in Senegal : geomorphological factors and Speaker: Luc DESCROIX (IRD)	ological factors and spatialisation © 15r	m 🕜 🔻
	12:00 PM Overexploitation of the Maastrichtian aquifer in Senegal Speaker: Maria FAYE (UCAD)	◎15	m <b>♂</b> ▼

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	12:30 PM	Rising groundwater levels and pollution in the thiaroye aquifer of Dakar Senegal: water management in a rapidly growing urban environment  Speaker: Seynabou Cisse FAYE (Geology Department Faculty of Sciences & Techniques - UCAD)	<b>③</b> 15m	<b> ▼</b>
	12:45 PM	Assessment of climate extremes on groundwater in Africa and projection of their medium and long	<b>③</b> 15m	€ *
		term impacts Speaker: Komi Mawulom Claude AFAMONDJI (Laboratory of Geosciences Water and Environment of the Faculty of Scient Mohammed V University in Rabat)	nces at the	
<b>11:00 AM</b> → 12:00 PM		g the data-knowledge gaps in hydrology: Open science & open edu resources in hydrology bdoulaye FATY (UCAD), Jean-Emmanuel PATUREL (IRD), Jérôme LE COZ (INRAE), Stephan DIETRICH (ICWRGC)	Room 2	<b>₽</b> →
	11:00 AM	Quantifying the uncertainty of ADCP discharge measurements through inter-comparisons	<b>③</b> 15m	<b> ★</b>
		Speaker: Jérôme LE COZ (INRAE)		
	11:15 AM	Open and Free Datasets for Hydrology Research: Insights Challenges and Opportunities	<b>③</b> 15m	₹ -
		Speaker: Michelle NEWCOMER (Lawrence Berkeley National Laboratory)		
	11:30 AM	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  Speaker: Ndeye Marame NGOM (Université Cheikh Anta Diop de Dakar)	<b>○</b> 15m	€ *
	11:45 AM	Socio-economic assessment of access and management of drinking water in island areas: case of the island of Niodior (Fatick-Senegal)	<b>○</b> 15m	€ -
		Speaker: Oumou NIANG (Institut des Sciences de l'Environnement/UCAD/DAKAR/SENEGAL)		
<b>11:00 AM</b> → 1:00 PM	ST5   Large riv	vers management: Exploring hydroclimatic variability in large basins	hitheatre	€ *
	Conveners: Alic (UCAD)	oune KANE (UCAD), Andrew OGILVIE (IRD), Ansoumana BODIAN (Université Gaston Berger Saint-Louis), Awa Niang Fa	ALL	
	11:00 AM	Variability of the Senegal River floodplain under climate change scenarios	<b>③</b> 15m	₹ •
		Speaker: Andrew OGILVIE (IRD)		
	11:15 AM	Sensitivity of the GR4J model to different estimating methods of potential evapotranspiration	<b>③</b> 15m	€ ▼
		Speaker: Ansoumana BODIAN (Université Gaston Berger Saint-Louis)		
	11:30 AM	Satellite-based Rainfall Estimates to Simulate Daily Streamflow Using a Hydrological Model over Gambia Watershed Speaker: Bakary FATY (Direction de la Gestion et de la Planification des Ressources en Eau)	<b>○</b> 15m	€ •
	11:45 AM	Open earth observation data for water accounting in large river basins: case of the Volta River basin in West Africa Speaker: Moctar DEMBELE (International Water Management Institute (IWMI))	<b>③</b> 15m	€ •
	12:00 PM	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 Speaker: Mouhamed DANGOURA (UCAD)	<b>③</b> 15m	€ •
	12:15 PM	Projected changes in the rainfall annual cycle over the Senegal River Basin using CMIP5 bias- corrected simulations  Speaker: Moussa DIAKHATE (Université Amadou Mahtar MBOW)	<b>③</b> 15m	<b>Z</b> •
	12:30 PM	Effect of the SWATPLUS input parameters on the modeling of the Senegal River flow at the Bafing - Bakoye - Faleme Speaker: Mousse Landing SANE (UCAD)	<b>③</b> 15m	€ •
	12:45 PM	First approaches for the development of the SWAT model in the Senegal River Basin Speaker: Abou DIA (UCAD)	<b>③</b> 15m	☑ ▼

<b>12:00 PM</b> → 1:00 PM		ng the data-knowledge gaps in hydrology: Scientific data mgmt & data exchange in hydrology Abdoulaye FATY (UCAD), Jean-Emmanuel PATUREL (IRD), Jérôme LE COZ (INRAE), Stephan DIETRICH (ICWRGC)	• Room 2	☑ •
	12:00 PM	ROBIN - A Reference Observatory of Basins for international hydrological climate change detection  Speaker: Jamie HANNAFORD (UK Centre for Ecology & Hydrology)	<b>⊙</b> 15m	€ *
	12:15 PM	New time series of gridded climatic variables for Czechia and their potential for nationwide hydrology  Speaker: Ondrej LEDVINKA (Czech Hydrometeorological Institute)	<b>③</b> 15m	€ *
	12:30 PM	The Global Terrestrial Network - Hydrology (GTN-H): a unique source of global hydrological observations  Speaker: Stephan DIETRICH (ICWRGC)	<b>③</b> 15m	€ *
	12:45 PM	The International Soil Moisture Network (ISMN): A permanent service for delivering long-term in situ soil moisture data  Speaker: Wolfgang KORRES (Federal Institute of Hydrology)	<b>○</b> 15m	€ *
1:00 PM → 2:30 PM		Lunch break	<b>O</b>	1h 30m
2:30 PM → 4:00 PM	Joint ST1/ST	2/ST5 session: Advancing Interdisciplinarity & Science for water solutions	Room 2	€ -
		I MAHE (IRD), Madiodio NIASSE, Rodric Merime NONKI (LEMAP - University of Yaoundé 1), Valerie BORRELL ESTUP		
	2:30 PM	Urban flooding in West Africa: holistic approaches to urban management in West Africa - the case of the propagation of rainfall floods in Cotonou  Speaker: Ernest AMOUSSOU (AcTNAO interdisciplinary team)	<b>○</b> 15m	€ *
	2:45 PM	Impacts of climate change on river sustainability in a semi-arid agricultural region of South Africa  Speaker: Jane TANNER (Rhodes University)	<b>⊙</b> 15m	€ *
	3:00 PM	Identifying non water-related leverages to improve water security at the local scale Speaker: Olivier BARRETEAU (INRAE)	<b>③</b> 15m	┏ •
	3:15 PM	Using the water footprint concept to understand the link between water scarcity and violent conflicts in the Central-West Africa sub-region.  Speaker: Elias NKIAKA (University of Sheffield)	○ 15m	€ *
	3:30 PM	Charm-EU pilot capstone on climate resilience of farming communities	<b>③</b> 15m	<b>*</b>
		Speaker: Dimitri SORO (Université Félix Houphouet-Boigny)		
	3:45 PM	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  Speaker: Valerie BORRELL ESTUPINA (Université de Montpellier)	<b>○</b> 15m	€ ▼
2:30 PM → 4:00 PM	ST2   Climate	change & Water resources resilience: Hydrometeorological variability & indices	Room 1	€ •
		ain DEZETTER, Amadou Thierno GAYE, Aminata NDIAYE, Bastien DIEPPOIS, Luc DESCROIX (IRD), Mohammer School of Hydraulics), Soussou SAMBOU, Telesphore BROU	d MEDDI	
	2:30 PM	Investigating past and future changes of hydroclimatic extremes in the Ouémé headwater catchment in West Africa  Speaker: Aymar BOSSA (University of Abomey-Calavi)	<b>1</b>	€ *
	2:45 PM	Study of climate variability in the Mountain District of Côte d'Ivoire (1961 to 2020).  Speaker: Coulibaly LEREYAHA (Université de MAN)	<b>○</b> 15m	€ *

	3:00 PM	Variabilite interannuelle de la pluviometrie de la zone forestiere aux savanes dans le sud-ouest centrafricain  Speaker: Jean Marie DJEBATA (École Normale Supérieure (ENS) de Bangui)	<b>○</b> 15m	€ ▼
	3:15 PM	Large-Scale Climatic Drivers of Long-term variability in the Frequency of Flood Events across Sub-Saharan Africa Speaker: Job EKOLU (Coventry University)	<b>○</b> 15m	€ •
	3:30 PM	Water Resources Resilience of the « false » West African Water Tower Speaker: Luc DESCROIX (IRD)	<b>⊙</b> 15m	€ •
	3:45 PM	Dry spells in the Ichkeul lake basin (Tunisia): diagnosis of droughts using daily data  Speaker: Majid MATHLOUTHI (LRSTE)	<b>©</b> 15m	€ *
<b>2:30 PM</b> → 4:00 PM		Il hydrology: Innovative observation technologies  Fernand KOUAME (UVCI), Raphael TSHIMANGA (CRREBaC), Santiago YEPEZ (University of Concepción)	nitheatre	€ •
	2:30 PM	Apport des outils spatiaux dans la compréhension de paramètres hydrologiques dans le bassin versant Djiguimar  Speaker: Abdoulaye FATY (UCAD)	<b>③</b> 15m	€ *
	2:45 PM	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 Speaker: Santiago YEPEZ (University of Concepción)	<b>③</b> 15m	€ *
	3:00 PM	Satellite-based monthly surface water storage database for the Congo basin from 1992-2015  Speaker: Benjamin KITAMBO (Laboratoire d'études en géophysique et océanographie spatiales (LEGOS))	<b>○</b> 15m	€ •
	3:15 PM	Characterization of flooding in the Mono basin with the HEC RAS model	③15m	₹ •
		Speaker: Ernest AMOUSSOU (Université de Parakou)		
	3:30 PM	Flood risk management and local development in the Dyonkoto - Boubon strip in Niger: remote sensing approach  Speaker: Hadiza KIARI FOUGOU (Université de Diffa - Niger)	<b>○</b> 15m	<b>∠</b>
	3:45 PM	Modeling freshwater discharge of poorly monitored African rivers using remote sensing-based land surface model  Speaker: Komlavi AKPOTI (International Water management Institute)	<b>○</b> 15m	€ *
<b>4:00 PM</b> → 4:30 PM		Coffee break	(	<b>3</b> 30m
<b>4:30 PM</b> → 6:00 PM	Joint ST1/S	T2/ST5 session: Advancing Interdisciplinarity & Science for water solutions	Room 2	€ •
	Conveners: 6 (Université de M	GII MAHE (IRD), Madiodio NIASSE, Rodric Merime NONKI (LEMAP - University of Yaoundé 1), Valerie BORRELL ESTUPIN (Interpellier)	A	
	4:30 PM	Water balance of ponds and their place in the agropastoral society of the Patar commune (Senegal)  Speaker: Fatou DIOUF (UCAD)	<b>○</b> 15m	€ *
	4:45 PM	Transdisciplinarity - a need for the education of people on the Climate Change: the example of GFS in Senegal  Speaker: Didier ORANGE (IRD)	<b>⊙</b> 15m	€ *
	5:00 PM	An adaptation of a scientific animation tool: the water mural  Speaker: Clémence DECROOCQ (Centre international UNESCO ICIREWARD)	<b>○</b> 15m	€ *
	5:15 PM	Delegation of public drinking water service management - an alternative to the community management model for improving access to water in rural Senegal.  Speaker: Samba BA (UCAD/EDEQUE)	<b>○</b> 15m	€ *
	5:30 PM	Integrated stormwater management in a context of major development of a new city: case of the urban pole of diamniadio (dakar/senegal)  Speaker: Bandiougou NDIAYE (UCAD)	<b>③</b> 10m	€ *

	5:40 PM	Impacts of socio-economic activities on the quality of water resources in the commune of darou khoudoss.  Speaker: Vieux Malang DIATTA (UCAD)	<b>⊙</b> 10m	€ *
	5:50 PM	Agriculture urbaine genre et résilience climatique à Korhogo (nord de la Côte d'Ivoire)  Speaker: Yéboué Stéphane Koissy KOFFI (UNIVERSITE PELEFORO GON COULIBALY DE KORHOGO)	<b>③</b> 10m	€ +
<b>4:30 PM</b> → 6:00 PM	Conveners: A	te change & Water resources resilience: Hydrometeorological variability & indices  Alain DEZETTER, Amadou Thierno GAYE, Aminata NDIAYE, Bastien DIEPPOIS, Luc DESCROIX (IRD), Mohammed I School of Hydraulics), Soussou SAMBOU, Telesphore BROU	Room 1	€ +
	4:30 PM	Effects of climate change on water requirements of orange trees in the Mitidja plain in Algeria  Speaker: Mohammed MEDDI (Higher National School of Hydraulics)	<b>③</b> 15m	€ •
	4:45 PM	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 (Laboratory for Environmental Modeling and Atmospheric Physics (LEMAP) - Department of Physics (LEMAP) - Depart	<b>○</b> 15m	€ +
	5:00 PM	Faculty of Sciences - University of Yaoundé 1)  Analyse spectrale des précipitations mensuelles dans les régions situées au Centre du Sénégal.  Speaker: Ibraima TOURE (UCAD)	<b>⊙</b> 15m	€ •
	5:15 PM	Hydrological modelling with the SWAT tool of the Sandougou watershed in a context of climate change  Speaker: Ahmadou Bamba DIENG (UCAD)	<b>⊙</b> 15m	₹ ▼
	5:30 PM	Paradox of water security and governance in the mountain range of fouta djallon Speaker: Coura KANE (Université Alioune Diop de Bambey)	<b>⊙</b> 15m	€ •
<b>4:30 PM</b> → 6:00 PM		Il hydrology: Innovative observation technologies  Fernand KOUAME (UVCI), Raphael TSHIMANGA (CRREBaC), Santiago YEPEZ (University of Concepción)	ohitheatre	€ •
	4:30 PM	Harnessing spatial patterns of satellite data for multivariate hydrological model calibration Speaker: Moctar DEMBELE (University of Oxford)	<b>③</b> 15m	€ •
	4:45 PM	Contribution of remote sensing to flood hazard mapping in the Riviera-Bonoumin watershed in the District of Abidjan (Ivory Coast)  Speaker: Bi Vami Hermann N'GUESSAN (Centre Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application en Télédétection (CURAT) - Universitaire de Recherche et d'Application et de Rec	<b>○</b> 15m rsité Félix	€ •
	5:00 PM	Evaluation of global gridded rainfall products in the main hydrosystems of Senegal: Casamance - Gambia - Senegal  Speaker: Omar GOUDIABY (Université Gaston Berger Saint-Louis)	<b>⊙</b> 15m	€ •
	5:15 PM	Analysis of the performance of satellite products for estimating evapotranspiration in the Senegal River Delta  Speaker: Papa Malick NDIAYE (Université Gaston Berger Saint-Louis)	<b>③</b> 15m	€ •
	5:30 PM	Groundwater Potential Zone mapping using Geographical informationsystem by Fuzzy- Analytic Hierarchy Process in humid area: case study ( Ghar El Melh (North Eastern of Tunisia))  Speaker: Amal KOUAIED (Université Tunis El Manar ( faculté des sciences de Tunis El Manar))	<b>⊙</b> 15m	₹ ▼
	5:45 PM	Groundwater Recharge Zone Mapping Using GIS-based Multi-Criteria Evaluation and Analytical Hierarchy Process: A Case Study of Trarza Aquifer (Mauritania) Speaker: Aguibou BA (UCAD)	<b>⊙</b> 15m	€ •













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

		26 September 2023		27 September 2023				
	UCAD Confucius Amphitheatre	UCAD Confucius Room 1	UCAD Confucius Room 2	UCAD Confucius Amphitheatre	UCAD Confucius Room 1	UCAD Confucius Room 2		
08:00 08:30		Registration desk & Welcome		Registration desk & Welcome				
09:00	Opening ceremony			ST3 I Bridging the data-knowledge gaps in hydrology Development of climate & hydro services	ST2 I Climate change & WRR Hydrological modelling	ST1 I Ecohydrology Water quality relation to land use		
10:00	Keynote speakers				Coffee break			
11:00		Coffee break				ST3 I Bridging the data-knowledge gaps in		
11:30 12:00 12:30	ST1 I Ecohydrology Dual regulation	ST21 Climate change & WRR Hazards data treatment and mapping	STS - Large rivers management Supporting shared water uses in large & transboundary basins	STS   Large rivers management Exploring hydroclim variability in large basins	Joint ST1/ST2/ST3 session Understanding & protecting GW resources	Open science & open edu resources in hydrology  ST3 I Bridging the data-knowledge gaps in hydrology  Scientific data mgmt & data exchange in hydrology		
13:00 13:30 14:00		Lunch		Lunch				
14:30 15:00 15:30	ST2 I Climate change & WRR WRR in basins and littoral environments	ST1   Ecohydrology Dual regulation	575   Large rivers management Supporting shared water uses in large & transboundary basins	ST4   Spatial hydrology Innovative observation technologies	ST2 I Climate change & WRR Hydromet variability & indices	Joint ST1/ST2/ST5 Session Advancing ID & science for water solutions		
16:00		Coffee break		Coffee break				
16:30 17:00 17:30	ST2I Climate change & WRR WRR in basins and littoral environments	ST11 Ecohydrology Water related flux/ecosystem services estimation	STS   Large rivers management Sediment presence & transport in large basins	ST4   Spatial hydrology Innovative observation technologies	ST2 I Climate change & WRR Hydromet variability & indices	Joint ST1/ST2/ST5 Session Advancing ID & science for water solutions		
18:00 18:30								