

International Conference on Environment & Society (EAS)

The 2023 International Conference on Nile River Basin and The Sudd Wetlands: Climate Change Adaptability and Sustainability, March 20-21, 2023, Miami, Florida, USA

6 am New York, Miami time
12 pm Egypt, Sudan, South Sudan
1 pm Ethiopia, Kenya, Tanzania, Turkey

New York Time		Monday: March 20, 2023			
Start	End	Time	Topic	Speaker	Affiliation
			Joint Session: 6:30 - 8:00am Moderator: Assefa M. Melesse		
6:30 am	6:35 am	:05	Conference overview Remark	Assefa M. Melesse, Conference Chair	Florida International University, USA
6:35 am	6:45 am	:10	FIU University welcome Remark	Todd A. Crowl, Director, Institute of Environment	Florida International University, USA
6:45	7:00	0:15	Opening Speech	Hon. Pal Mai Deng, Minister	Ministry of Water Resources and Irrigation, South Sudan
7:00 am	7:30 am	:30	Keynote: Nile Waters Management and Links to Conflict Management and Food Security for the Horn of Africa	Tag Elkhazin	Ottawa. Norman Paterson School of International Affairs, Carleton University Canada
7:30 am	8:00 am	:30	Keynote: The Sudd Wetland: Opportunities and Threats	John Akec	University of Juba
			BREAKOUT ROOM 1 Moderator: Mekdelawit Deribe Theme 1 (The Importance of The Sudd in the Nile Basin)		
8:00 am	8:20 am	0:20	Wetlands and Hydroclimate: The Sudd Swamps in the Nile Basin in Contrast to the Drainage of the Everglades of the United States	Wossenu Abtew	Water and Environment Consulting
8:20 am	8:40 am	0:20	The Impact of Completing Jonglei Canal and Dredging BG Basin on the Delicate Ecosystem of the SUDD Wetlands	Tag Elkhazin	Ottawa. Norman Paterson School of International Affairs, Carleton University Canada
8:40 am	9:00 am	0:20	The Importance of the Sudd in the Nile Basin	Mekdelawit Deribe	Florida International University, USA

9:00 am	9:20 am	0:20	The Sudd Wetlands Management based on Transboundary and International Lakes Management Perspectives	Emmanuel Ladu Parmenas Lupai	Undersecretary, Ministry of Water Resources, and Irrigation, South Sudan
			Theme 2 (Climate Change and Transboundary Rivers)		
9:20 am	9:40 am	0:20	The Grand Ethiopian Renaissance Dam (GERD) and Climate Change Politics in the Nile Basin Moderator:	Samuel Alemu	Center for African and Asian Studies, Addis Ababa University
9:40 am	10:00 am	0:20	Tempospatial Variability and Change in Future Rainfall and Temperature under Representative Concentration Pathway Scenarios in the Didessa River Basin, Ethiopia	Kinati Chimdessa	Wollega UNIVERSITY
10:00 am	10:30 am	0:30	Break		
			BREAKOUT ROOM 1 Moderator: Wossenu Abtew Theme 2 (Climate Change and Transboundary Rivers)		
10:30 am	10:50 am	0:20	Impact of climate change on future availability of water for irrigation and hydropower generation in Omo-Gibe basin, Ethiopia	Tamiru Paulos Orkodjo	Arba Minch University
10:50 am	11:10 am	0:20	Application of Advanced Wflow_sbm Model with the CMIP6 climate projection for flood prediction in the data-scarce: Lake-Tana Basin, Ethiopia	Addis Alaminie	Bahir Dar University
			Theme 3 (Functions of Wetlands)		
11:10 am	11:30 am	0:20	Framework for management strategies of natural wetlands	Mulugeta Belete	Hawassa University
11:30 am	11:50 am	0:20	Depressional wetlands – hydrodynamics, ecosystem functions and conditions	Tekleab Gala	Chicago State University
11:50 am	12:10 pm	0:20	An Evaluation of the Hydroclimate and Ecological Importance of Wetlands: A Case Study of the Mara and Tana River Delta Wetland Ecosystems, Kenya	Bertha Othoche	Pwani University
			Theme 4 (The Nile River Basin)		
12:10 pm	12:30 pm	0:20	Assessment of the seasonal water balance of the Abay River basin in Ethiopia using satellite databases and hydrological model	Agegnehu Yoshe	Arba Minich University
12:30 pm	12:50 pm	0:20	Spatiotemporal Trends of NDVI and its response to Climate Variability in the Abbay River Basin, Ethiopia	Kassaye Hussien	Haramaya University

New Yor Time		Monday: March 20, 2023			
Start	End	Time	Topic	Speaker	Affiliation
			Joint Session: 6:30 - 8:00 am		
			BREAKOUT ROOM 2 Moderator: Ethiopia Zeleke Theme 5 (Climate Change Mitigation, Adaptation and Sustainability)		
8:00 am	8:20 am	0:20	Modeling the impact of climate change on the distribution of Hagenia abyssinica	Tsegaye Gobezie	Wollo University
8:20 am	8:40 am	0:20	Impacts of climate change on the inflow flood for dam safety in the Upper Awash Sub-basin, Ethiopia	Fekremariam Negash	AASTU
8:40 am	9:00 am	0:20	Characterizing climate trends and variability for proved and climate resilient maize farming system in Mecha area, Northwest Ethiopia	Abebe Zeleke	Debre Tabor University
9:00 am	9:20 am	0:20	Nile Basin Initiative (NBI) and Its Climate Change Adaptation Strategies	Hasan Ilkbahar	Duzce University, Turkey
9:20 am	9:40 am	0:20	Soil organic carbon prediction from a remote sensor: a climate informed service for better nutrient management in Ethiopia	Gizachew Tiruneh	Bahir Dar University
9:40 am	10:00 am	0:20	Indigenous and Improved Adaptation Technologies in Response to Climate Change Adaptation among Smallholder Farmers in the East Wollega Zone, Western Ethiopia	Teka Bekuma	Jimma University
10:00 am	10:30 am	0:30	Break		
			BREAKOUT ROOM 2 Moderator: Assefa Melesse Theme 5 (Climate Change Mitigation, Adaptation and Sustainability)		
10:30 am	10:50 am	0:20	Invited Speaker: Reflections on COP 27	Mekdelawit Deribe	Florida International University
10:50 am	11:10 am	0:20	Double Cropping Practices demonstration as climate change adaptation and resilience strategies for small holder farmers in Harari Region and Dire Dawa, Ethiopia	Ibsa Usmane	Haramaya University
			Theme 4 (The Nile River Basin)		
11:10 am	11:30 am	0:20	Invited Speaker: Sustainable Eastern Nile Development Strategy 2050: Model-based analysis of coupled development and management strategies	Semu Moges	DWU
11:30 am	11:50 am	0:20	Exploring the GERD Research Landscape: Investigating the Correlation between Researchers' Nationalistic Allegiance and Conclusions Drawn	Daniel Waktola	Austin Community College
11:50 am	12:10 pm	0:20	Review of Soil Erosion and Sediment Transport and Management Status in the Blue Nile River Basin: The Case of Ethiopia	Birara Gebeyhu	Arba Minch University
12:10 pm	12:30 pm	0:20	Spatiotemporal Impacts of Climate and Land Use Land Cover Changes on Water Yield	Kassaye Hussien	Haramaya University

			Ecosystem Service in Berressa Watershed, Abbay River Basin, Ethiopia		
12:30 pm	12:50 pm	0:20	Hydraulic modeling and flood mapping of flood plain along Megech River, Upper Blue Nile Basin, Ethiopia	Mersha Tenaw	University of Gondar

New York Time		Day 2 Tuesday: March 21, 2023 6 am New York, Miami time 12 pm Egypt, Sudan, South Sudan 1 pm Ethiopia, Kenya, Tanzania, Turkey			
Start	End	Time	Topic	Speaker	Affiliation
			Joint Session: 7:00 - 8:00 am Moderator: Assefa M. Melesse		
7:00 am	7:30 am	:30	Keynote: Women and Sustaining Livelihoods in Sudd Wetland	Nyathon Hoth Mai	Sudd Institute
7:30 am	8:00 am	:30	Keynote: Climate Change and Transboundary Water Sharing	Wossenu Abtew	Water and Environment Consulting
			BREAKOUT ROOM 1 Moderator: Wossenu Abtew Theme 1 (The Importance of The Sudd in the Nile Basin)		
8:00 am	8:20 am	0:20	How has the climate changed in South Sudan? An analysis of climate shocks, vulnerability factors, and adaptation measures	Nhial Tiitmamer	South Sudan
8:20 am	8:40 am	0:20	The White Nile and the Sudd in South Sudan: Water Laws, Climate Change and Challenges Facing the Population	Salwa Berberi	Academy for Training and Learning
			Theme 6 (International Law and its Applicability to the Nile Basin Sharing and Regulation)		
8:40 am	9:00 am	0:20	Review the role of communication on hydro diplomacy under the Nile River Basin	Selman Hassen	Arba Minch University
9:00 am	9:20 am	0:20	International law and transboundary water management experiences across the world	Mekdelawit Deribe	Florida International University
			Theme 7 (Hydrologic Processes and Landscape)		
9:20 am	9:40 am	0:20	Assessment of river bank overtopping problem	Melaku Wendachew Gashu	Woldia University
9:40 am	10:00 am	0:20	Assessment of Groundwater Potential Zone Using Geospatial Technology and AHP Techniques for Gondar Zuria District, Northern Ethiopia	Aniley Tenaw	University of Gondar
10:00 am	10:30 am	0:30	Break		
			Moderator: Getachew/ Mekdelawit Theme 7 (Hydrologic Processes and Landscape)		
10:30 am	10:50 am	0:20	Determination of optimal irrigation scheduling for durum wheat in the Central Highland vertosol of Ethiopia	Solomon Gezie Kebede	Ethiopian Institute of Agricultural Research
10:50 am	11:10 am	0:20	A Random Forest Classification Algorithm for Predicting Seasonal Rainfall Magnitude in Regions of Ethiopia at Variable Lead Times	Ethiopia B. Zeleke	Florida International University

11:10 am	11:30 am	0:20	Evaluation of merging method for CHIRP satellite rainfall estimate over Wabi Shebelle River Basin, Ethiopia	Kindie Engdaw	Addis Ababa university
11:30 am	11:50 am	0:20	Urban Drainage: The Challenges and Failure Assessment using AHP, Addis Ababa, Ethiopia	Mengistu Addis	AASTU
11:50 am	12:10 pm	0:20	Choosing an interpolation approach to cover deficient Climate data: A case study of sparsely gauged Omo-Gibe River Basin, Ethiopia	Bahru Mekuria	Addis Ababa University, AAIT
12:10 pm	12:30 pm	0:20	Land use/land cover change evaluation and prediction using MOLUSCE plugin in QGIS: The case of Upper Omo-Gibe River Basin, Ethiopia	Paulos Debissa	Arba Minch University
12:30 pm	12:50 pm	0:20	Trends of Forest Cover and Prospects of Great Ethiopian Renaissance Dam (GERD) to Ethiopia and the Downstream Countries	Tamirat Solomon	Wolaita Sodo University, Ethiopia
12:50pm	1:10pm	0:20	Hydrological modeling of the Kobo-Golina River in the data scarce upper Danakil basin, Ethiopia	Belay Zegeye Abate	Tianjin University, China
BREAKOUT ROOM 2					
Moderator: Angelica Moncada					
Theme 5 (Climate Change Mitigation, Adaptation and Sustainability)					
8:00 am	8:20 am	0:20	Climate change impact on dairy cattle productivity and various adaptive strategies for sustainable production: a review	Teshome Gemechu Chawicha	Haramaya University
8:20 am	8:40 am	0:20	Mitigation of greenhouse gas emissions from an industrial wastewater treatment plant in terms of process modification	Pelin Yapıcıoğlu	Harran University, Engineering Faculty, Environmental Engineering Department, Sanliurfa, Turkey
8:40 am	9:00 am	0:20	Rural household perception and adaptation strategies to climate change and variability: in the case of Libo-kemkem Woreda, Ethiopia	Abraham Asmare	Bahir Dar University
9:00 am	9:20 am	0:20	Climate Trends, variability, and impacts of El Niño-Southern Oscillation on rainfall amount in Ethiopia	Zerihun Amare	Bahir Dar University
9:20 am	9:40 am	0:20	Effect of Climate Smart Agriculture Innovations on Climate Resilience Livelihood among Smallholder Farmers in Ethiopia	Abyiot Teklu	Addis Ababa University
9:40 am	10:00 am	0:20	Recent and future spatiotemporal variability and trends of extreme rainfall in the Gumara Watershed, Upper Blue Nile River Basin, Ethiopia	Haile Desta	Africa Centre of Excellence for Water Management
10:00 am	10:30 am	0:30	Break		
Moderator: Assefa Melesse					
Theme 5 (Climate Change Mitigation, Adaptation and Sustainability)					

10:30 am	10:50 am	0:20	Impacts of Best Management Practices on Runoff, Soil Loss, and Sediment Yield in the Megech Watershed	Mulugeta Admas	Addis Ababa Science and Technology
10:50 am	11:10 am	0:20	Mitigation of Greenhouse Gas Emissions from Groundwater Treatment Using Biochar Adsorption	Pelin Yapıcıoğlu	Harran University, Engineering Faculty, Environmental Engineering Department, Sanliurfa, Turkey
11:10 am	11:30 am	0:20	Effect of Historical Climate Data on Reference Evapotranspiration and Crop Water Requirement for Maize Crop	Ligalem Agegn Asres	Arba Minch University
11:30 am	11:50 am	0:20	Estimation of carbon stock and emission of community forests in Eastern Amhara, Ethiopia	Tsegaye Gobezie	Wollo University
11:50 am	12:10 pm	0:20	Evaluation of streamflow response to climate change in the data-scarce region, Ethiopia	Daniel Geletaw Eshete	University of Gondar
12:10 pm	12:30 pm	0:20	Impacts of land management practices on selected ecosystem services under changing climate of Central Rift Valley, Ethiopia	Abera Assefa Biratu	Haramaya University and Ethiopian Institute of Agricultural Research
12:30 pm	12:50 pm	0:20	Estimation of carbon stock in Homegarden Agroforestry Practices in Kola Shele Kebele, Arba Minch Zuria District, Gamo Zone, Ethiopia	Shashe Shita Ambaye	Arba Minch University