

Day 1 Monday November 22, 2021
6:30AM New York Time; 2:30PM Ethiopia Time; 1:30PM Sudan and Egypt Time

General Session

Moderator: Assefa Melesse, Florida International University

6:30-6:45		Conference Opening Remarks by Dr. Todd Crowl					
6:45-7:00		University Remarks by Dean Michael Heithuas					
7:00-7:30		Keynote 1: Impact of government and farmer-initiated practices on discharge and soil loss in the (sub) humid highlands, Professor Tammo Steenhuis, Cornell University					
7:30-8:00		Keynote 2: Land use versus climate change impacts on water resources in Africa, Professor Ann Van Griensven, Vrije Universiteit Brussel					

Time	Topic	Speaker	Affiliation		Topic	Speaker	Affiliation
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Breakout Room 1				Breakout Room 2			
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Land Degradation and Water Quality				Climate Change and Hydrological Variability			
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Moderator: Professor Ann Van Griensven, Vrije Universiteit Brussel				Moderator: Professor Rene Price, Florida International University			
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8:10-8:30	T01	Large scale soil erosion prediction with SWAT+ in a data-scarce region: An application in the Nile basin	Albert Nkwasa	Vrije Universiteit Brussel	IT 1	<i>Invited:</i> Sea level rise: regional projections, implications and adaptation	Jayantha Obeysekera	Florida International University
8:30-8:50	T02	Assessment of soil contamination and landcover changes in the Vince Bayou Watershed of Houston, Texas	Felicia Davis	Texas Southern University	T13	Modelling the impact of climate change on Maize production and adaptation options Hawassa Zuria Woreda	Abiyot Muluneh	
8:50-9:10	T03	Assessment of impact of land use/land cover dynamics on water quality of Awash River, Ethiopia	Amare Keraga	Hawassa University	T14	Impacts of climate change and land use change on hydrological response in Gumara watershed, Ethiopia	Achenafi Teklay	University of Gondor
9:10-9:30	T04	Applying geotextile using false banana fiber for the conservation of soil erosion	Yirdawu Zeleke	Wolkite University	T15	Estimating precipitable water vapor using the global positioning system and radio occultation over Ethiopian regions	Asmamaw Yehun	Bahirdar University
9:30-9:50	T05	Implications of land management practices on selected ecosystem services in the agriculture landscapes of Ethiopia	Abera Assefa Biratu	Haramaya University	T16	Current and projected loss of soil under changing land use and climate in the Lake Tana basin, Upper Blue Nile river, Ethiopia	Birhan Getachew Tikuye	Debretabor University
9:50-10:10	T06	The use of acoustic backscatter as a surrogate for water quality measurements	Ikechukwu Onwuka	Florida International University	T17	Climate change impacts on precipitation and temperatures characteristics: the upper Awash River Basin in Ethiopia	Abdulkerim Bedewi Serur	Adama Science and Technology University
10:10-10:30	Break				Break			
Moderator: Dr. Prasad Daggupati, University of Guelph				Moderator: Dr. Jayantha Obeysekera, Florida International University				
10:30-10:50	T07	Analyzing the contribution of environmental drivers on algal blooms in Lakes Erie and Winnipeg using the copula method	Rahim Barzegar	Mc Gill University	IT 2	<i>Invited:</i> Past, present and future effects of saltwater intrusion in South Florida	Rene Price	Florida International University

10:50-11:10	T08	An evaluation of market crops on floating treatment wetlands as a phytoremediation strategy for eutrophic water in South Florida	Jazmin Locke	Florida International University	T18	Minimization of greenhouse gas emissions from drinking water treatment plants	Pelin Yapicioglu	Harran University
11:10-11:30	T09	An investigation on the impact of sediment on cyperus papyrus growth: microcosm experiment	Kebebush Mulat	Ethiopian Environment and Forest Research Institute	T19	Snakes and ladders in humanitarian Engineering: Prototype Development in Localized Energy and Flood preparedness	Spyros Schismenos	Western Sydney University
11:30-11:50	T10	Use of the Solvophobic Theory to Predict the Potential for Chlorpyrifos (CPF) to Contaminate Groundwater: A case study of Sorption and Degradation on Selected Ugandan Soils	Ivan Oyege	Florida International University	T20	Changes in the seasonality of Ethiopian Highlands climate and implications for crop growth	Tarekegn Gashaw	Bahirdar University
11:50-12:10	T11	Effects of land cover changes on Gilgel Gibe -III reservoir sedimentation: A preliminary work	Biniyam Sishah	University of Genoa	T21	Comparative Assessment of the Future Climate Change Projection over the Main Central Rift Valley Lakes Basin, Ethiopia	Wondimu Hailesilassie	African center of Excellence for Water management, Addis Ababa University
12:10-12:30	T12	How much is sufficient? Assessing land use change to improve water quality in Lake Ōkareka, New Zealand	Gebiaw T. Ayele	Australian River Institute, Griffith University	T22	Selection of optimum transplanting dates of common boro rice cultivars in Southwestern coastal Bangladesh under the changing climate using DSSAT model	Swarnali Mahmood	University of Florida
12:30-12:50	T50	Evaluation of climate change impact on irrigation water requirement	Gemechis Dessalegn	Adama Science and Technology University	T23	Modeling Impacts of Climate Change on the Potential Ecological Distribution and Habitat Suitability of Coffee crops and Adaptation Strategies in Ethiopia	Belay Ejigu Feke	Jimma University

Day 2 Tuesday November 23, 2021
7:00AM New York Time; 3:00PM Ethiopia Time; 2:00PM Sudan and Egypt Time

General Session

7:00-7:30		Keynote 1: Geospatial intelligence in climate-induced hazard modelling, Distinguished University Professor Biswajeet Pradhan, University of Technology Sydney					
7:30-8:00		Keynote 2: Participatory Water Resources Modeling, Professor Jan Franklin Adamonski, McGill University, Canada					
		Moderator: Assefa Melesse, Florida International University					
		Topic	Speaker	Affiliation		Speaker	Affiliation
		Breakout Room 1			Breakout Room 2		
Themes		Remote Sensing and AI Application in Hydrology, Urban Hydrology and Coastal Flooding, Land Cover Dynamics and Watershed Vulnerability			Extreme Hydrology and Teleconnectivity, Others		
		Land Cover Dynamics and Watershed Vulnerability			Extreme Hydrology and Teleconnectivity		
		Moderator: Xixi Wang, Old Dominion University			Moderator: Dr. Getachew Tegegne, Addis Ababa Science and Technology University		
8:10-8:30	T24	Ecosystem services valuation of landscapes in transition in Central Ethiopia	Abera Assefa Biratu	Haramaya University	T37	Characterizing drought under CMIP6 scenarios in different agroecological zones over East Africa	Agumase K Tefera Bahirdar Institute of Technology
8:30-8:50	T25	Sustainable development with water quality and biodiversity in the Ethiopian Rift Valley Lake systems: A hit or a myth?	Brook Lemma	Addis Ababa University	T38	Statistical Evaluation and Hydrological Application of Eight High-Resolution Satellite Precipitation Products over the Blue Nile basin	Hadir Abdelmoneim Alexandria University
8:50-9:10	T26	Effect of land use and land cover change on soil erosion in Erer Sub basin, Northeast Wabi Shebelle Basin, Ethiopia	Gezahegn Weldu	Haramaya University	T39	Effect of temporal sampling mismatches between Satellite rainfall estimates and rain gauge observations on modeling extreme rainfall in the Upper Awash Basin, Ethiopia	Kirubel Mekonnen Addis Ababa University
9:10-9:30	T27	Gaps in the legislative framework in the conservation, development and utilization of Lake Tana Watershed (Ethiopia)	Melkamu Moges	Dr.Melkamu Lawyering Research Training and Consultancy	T40	Forecasting of monthly discharge for the Blue Nile River at Khartoum Station, Sudan	Mohammed Abbas Permanent Joint technical commission for Nile waters
		Urban Hydrology and Coastal Flooding					
9:30-9:50	T28	Compound flooding potential in the Arch Creek Basin, Miami-Dade County Florida	Francisco Pena Guerra	Florida International University	T41	Flood extent mapping using integration of google Earth Engine and statistical thresholding-A case study Lare District, Gambella Region, Ethiopia	Tsegaye D Lemma Ethiopian Space Science and Technology Institute

						Others		
9:50-10:10	T29	Urban flood management through urban land use optimization using LID Techniques, City of Addis Ababa, Ethiopia	Mengistu Addis	Addis Ababa Science and Technology University	T42	Assessing the potential for creating a water fund for the Kingston Metropolitan Area	Thera Edwards	University of West Indies
10:10-10:30	Break				Break			
Moderator: Dr. Hisham Eldardiry, University of Washington					Moderator: Dr. Yared Bayissa, Texas A & M University			
10:30-10:50	T30	Application of mixed oxide nanomaterials in arsenic removal from contaminated groundwater and wastewater	Sayan Bhattacharya	Nalanda University	T43	GIS and remote sensing-based land suitability analysis for Major Agricultural crops in Mirab Abaya Woreda, Gamo Zone, Southern Ethiopia	Alemu Assele	Arbaminch University
Remote Sensing and AI Application in Hydrology								
10:50-11:10	T31	Integrating remote sensing and hydrologic modelling for evaluation of hydrologic response to land use/landcover and climate changes	Paulos Lukas	Arbaminch University	T44	Effect of pretreatments and solar tunnel dryer temperature on functional properties, proximate and bioactive components of pumpkin (cucurbit maxima) pulp powder	Hayat Hassen	Jimma University
11:10-11:30	T32	Daily short-term stream flow forecasting using deep learning models	Eyob Betru	Addis Ababa Institute of Technology	T45	A review on assessment of the Water-Energy-Food Nexus for the transboundary Nile river, Eastern Nile River Basin	Kindie E Tadesse	Addis Ababa University
11:30-11:50	T33	Performance of satellite precipitation estimate over Ethiopia(A case study over Wabi Shebelle River Basin)	Kindie E Tadesse	Addis Ababa University	T46	Modelling the hydrological characteristics of a watershed using the Xinanjiang-R model: the case of upper Lake Tana Basin	Simir Atanaw	University of Gondar
11:50-12:10	T34	Water harvesting suitable sites identification using geospatial and modelling in Wadi Eiku, Sudan	Mohammed Abbas	Permanent Joint technical commission for Nile waters	T47	Characterize small-scale irrigation schemes in Northern Ethiopia based on socioeconomic, technical, and institutional aspects	Amina Abdelkadir Mohammedshum	University of Twente
12:10-12:30	T35	Prediction of Sediment Yield and Reservoir Sedimentation in Highly Dynamic Watersheds: The Case of Koga Reservoir, Ethiopia	Gebiaw T. Ayele	Australian River Institute, Griffith University	T48	Adaptation pathways for river landscape restoration	Bregje van der Bolt	Wageningen University
12:30-12:50	T36	Wetland hydrology monitoring using Sentinel-1 Synthetic Aperture Radar (SAR) backscatter Observation	Boya Zhang	Florida International University	T49	Analyzing the Benefit-Cost Ratio of sediment resources by remote sensing data in the Ping River Basin, Thailand	Prem Rangsiwanichpong	Kasetsart University