



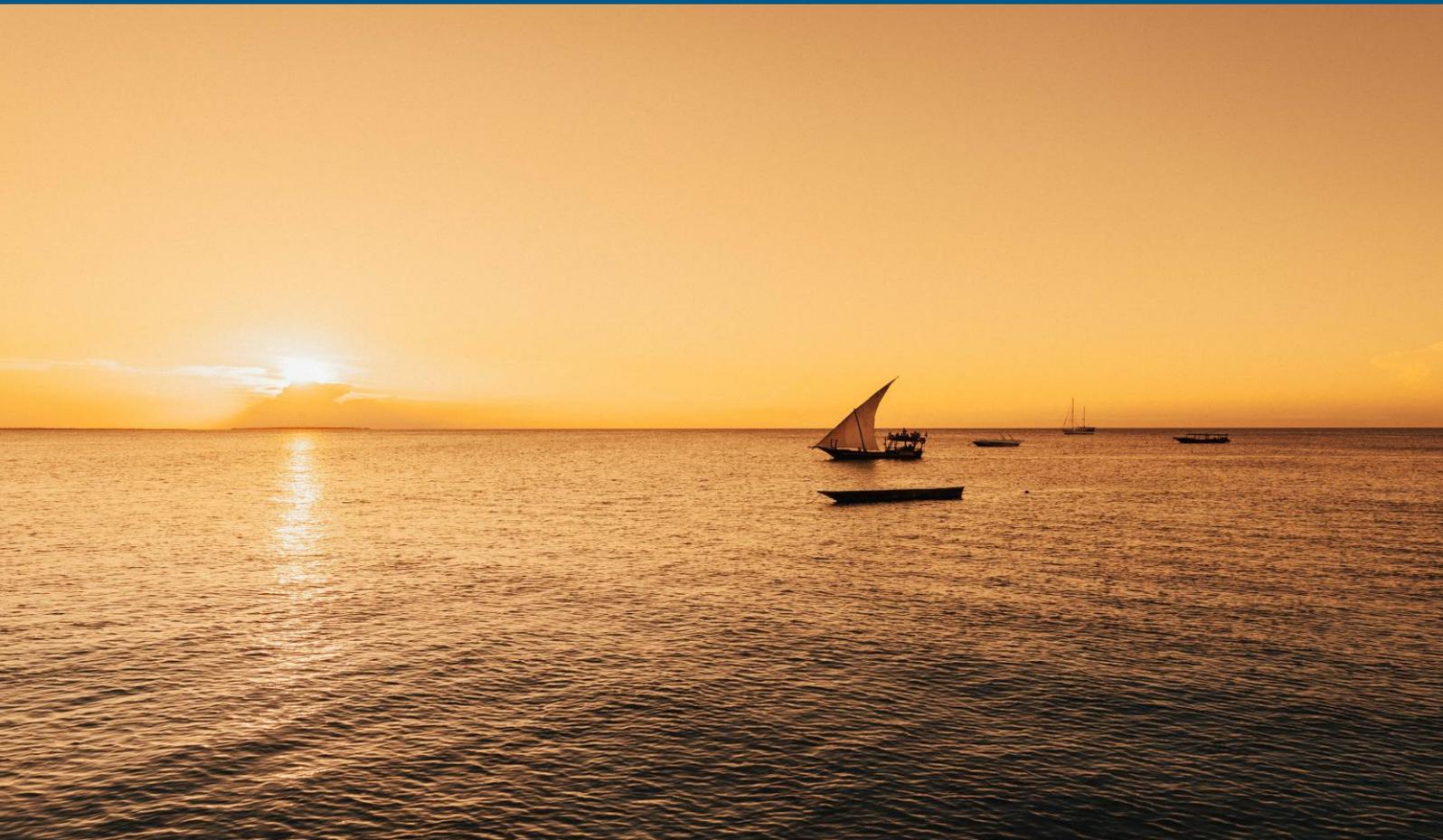
The Revolutionary Government of Zanzibar
Ministry of Water, Energy and Minerals

Zanzibar Water Conference 2022

Theme

Seeing the Unseen: Sustainable Management of
Groundwater Resources in a Changing Climate

Programme



14th – 15th September 2022
Golden Tulip Hotel, Zanzibar



Guest of Honour



H.E. Dr. Hussein Ali Mwinyi

President of Zanzibar and Chairman of the
Revolutionary Council

Organizing Committee



Hon. Shaib Hassan Kaduara
Minister of Water, Energy and Minerals



Hon. Shaaban Ali Othman
Deputy Minister of Water, Energy and Minerals



Joseph Kilangi
Principal Secretary Ministry of Water, Energy and Minerals



Mwanajuma Majid Abdullah
Deputy Principal Secretary Ministry of Water, Energy and Minerals



Dr. Maryam Issa
Juma



Mr. Mudrik Fadhil
Abass



Dr. Salha M.
Kassim



Dr. Victor Kongo



Ms. Dalhat Said
Shaib



Dr. Subira
Munishi



Dr. Mathew
Renny Msukwa



Mr. Abdulrabi
Juma Abdulrabi



Mr. Said Faraji
Abdalla



Ms. Shara
Chande Omar



Mr. Salum Keis
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Mr. Abdulsatari
maulid salim



Dr. Nassor
Hamad Said



Ms. Semeni
Jaffar



Mr. Hakim M.
Ame



Mr. Mshangama
Ismail Juma



Ms. Asya Sabri
Said



Ms. Salma
Lusangi



Mr. Abeid Mussa



Mr. Andrew
Kimati



Mr. Chrisogonus
Kibugu



Ms. Asha Msoka



Ms. Sharon Sije



Ms. Evangeline
Sokile



Dr. Daniel Maige



Dr. Jackson
Justo



Eng. Khamis
Yahya



Ms.
Mwanamrisho



Mr. Frankie
Anderson

Scientific Committee



**Eng.
James Sauramba**
SADC GMI



Prof. Graham Jewitt
IHE Delft
Institute for Water



Dr. Kevin Pietersen
SADC-GMI



Dr. Subira Munishi
University of Dar es Salaam



Dr. Victor Kongo
Global Water Partnership
Tanzania



Dr. Maryam Issa Juma
Ministry of Water, Energy and
Minerals



Dr. Jackson Justo
University of Dar es Salaam



Dr. Mathew Msukwa
University of Dar es Salaam



Chrisogonous Kibugu
Global Water Partnership
Tanzania

Sponsors



Day 1

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Wednesday - 14 September 2022

Time	Activity
0700hrs - 0900hrs	Arrival of Conference Participants & Registration
0900hrs - 0915hrs	Arrival of Guest of Honour - H.E. Dr Hussein Ali Mwinyi President of Zanzibar and Chairman of the Revolutionary Council
0915hrs - 0945hrs	Tour of Exhibition Booths by Guest of Honour
0945hrs - 0955hrs	Singing of National and East Africa Community Anthems
0955hrs - 1000hrs	Prayers
	Opening Remarks
1000hrs - 1005hrs	Statement by Executive Director - Global Water Partnership Tanzania (GWP TZ) <i>Dr. Victor Kongo</i>
1005hrs - 1015hrs	Keynote Address 1: Introducing the Conference and Water Situation in Zanzibar Director General - Zanzibar Water Authority (ZAWA) <i>Dr. Salha Mohammed Kassim</i>
1015hrs - 1025hrs	Keynote Address 2: The Blue Economy Discourse Programme Manager - Western Indian Ocean Marine Science Association (WIOMSA) <i>Dr. Valentine Ochanda</i>
1025hrs - 1030hrs	Introduction Remarks by Principal Secretary - Ministry of Water, Energy and Minerals <i>Mr. Joseph J. Kilangi</i>
1030hrs - 1035hrs	Introduction Statement by the Minister - Ministry of Water, Energy and Minerals <i>Hon. Shaibu Hassan Kaduara</i> ...and inviting the Guest of Honour
1035rs - 1100hrs	Official Opening by the Guest of Honour President of Zanzibar and Chairman of the Revolutionary Council H.E. Dr Hussein Ali Mwinyi
1100hrs - 1110hrs	Group Photos with Guest of Honour
1110hrs – 1120hrs	Award of Certificate of Appreciation to Sponsors
1120hrs - 1130hrs	Departure of Guest of Honour
1130hrs - 1150hrs	Health Break
	Plenary Session I
1150hrs - 1250hrs	Moderator: Dr. Richard Kimwaga Panelist: Eng. James Sauramba, Prof. Afonso Daniel Machecha, Captain Hamad

Time	Activity		
	Groundwater assessment in a changing climate	Conjunctive use of surface and groundwater in enhancing water supply and sanitation	Water – Energy -Food security (WEF) Nexus in a changing Climate
	Room 1	Room 2	Room 3
	Chair: Dr. Deogratias Mulungu Rapporteur: Evangeline Sokile	Chair: Eng. James Sauramba Rapporteur: Leah Marwa	Chair: Dr. Hans Komakech Rapporteur: Gift Mollel
1250hrs - 1305hrs	Afonso Daniel Macheca 'Biodegradable Polymer-Based Organoclays for Wastewater Treatment Process: An Alternative to Conventional Surfactant-Based Organoclays'	Richard Kimwaga 'Towards Safe Toilet Emptying in Unplanned Settlement Areas for Groundwater Contamination Control: A case of Dar es Salaam, Tanzania'	Preksedis Marco Ndomba 'Sensitivity Analysis of Modelling Inputs in SWAT and HBV Hydrologic Models in Simulating Historical Stream Flows'
1305hrs - 1320hrs	Subira Munishi 'Rapid Assessment of Groundwater Quality in Zanzibar (Unguja and Pemba)'	Shija Kazumba 'Cost of water transportation to mitigate shortages in semi-arid regions of Tanzania'	Francis Mwasilu 'Smart Water-Food-Energy Nexus-Based Power Infrastructure for Enhancing Reliable and Flexible Rural Electrification'
1320hrs - 1335hrs	Chrisphine Odiwuor Adero 'Social Auditing and Corporate Sustainability of Water Companies in Kenya'	Mohammed Mohammed Abdallah 'Integrated water resources management using EPANET software for proper water distribution network in Zanzibar'	Othman Juma Suleiman 'Crop water requirement for Zanzibar Island in Tanzania state up to 2100 using high-resolution climate simulation from cordex regional climate models'
1335hrs - 1405hrs	Discussion		
1405hrs - 1500hrs	Lunch		
1500hrs - 1515hrs	Innocent Nkuruzinza 'GIS based groundwater potential and vulnerability assessment and mapping for domestic use in Ruvubu river basin, Burundi'	Margaret Sima Kironde** Comprehensive study on factors affecting consumers' choice of bottled drinking water: a case study of Dar es salaam'	Eng. Esther Oulo** 'The Nexus Approach to Water-Energy-Food Security: An Option for adaptation to Climate Change'
1515hrs - 1530hrs	Rita Alex 'Identification of groundwater contamination Sources Using Stable Isotope for Singida Urban and Manyoni Aquifers in Tanzania'	Itumeleng Mogatusi-Sekgota 'Beyond litres– the contribution of mining in enhancing water supply for its host communities'	Jackson J Justo 'Looking into Solar PV Systems for Clean Water and Food Nexus Applications'
1530hrs - 1545hrs	Hellen Aluku 'Impacts of Science-Policy Interface and Science-Policy-Farmers Interface on Adoption of Innovative Agricultural Techniques in North-Eastern Tanzania'	Preksedis Marco Ndomba 'Evaluation of SWAT and HBV Model Parameter Uncertainties in Simulating Stream flows'	Naima A.M. Hersi** 'Groundwater Recharge Estimation for the Internal Drainage Basin, Tanzania under changing Land use and Climate scenarios'
1545hrs - 1615hrs	Discussion		
1615hrs - 1700hrs	Health Break and Poster Session		

Day 2

Thursday – 15 September 2022

Time	Activity		
0830hrs - 0930hrs	<p align="center">Plenary Session II Moderator: Dr. Richard Kimwaga Keynote Presentation III: Dr. Subira Munishi (Characterizing the Zanzibar Hydrogeological Regime) Panelist: Dr. Maryam Issa Juma, Elisekile Mbwille, Dr. Salha Mohammed Kassim</p>		
	Room 1	Room 2	Room 3
	<p>Chair: Dr. Shija Thomas Kazumba Rapporteur: Asha Msoka</p>	<p>Chair: Dr. Sekela Twisa Rapporteur: Naima Hersi</p>	<p>Chair: Dr. Richard Kimwaga Rapporteur: Sharon Richard</p>
	<p>Groundwater assessment in a changing climate</p>	<p>Conjunctive use of surface and groundwater in enhancing water supply and sanitation</p>	<p>Water – Energy -Food security (WEF) Nexus in a changing climate</p>
0930hrs - 0945hrs	<p>Fanuel Ligate ‘Hydrogeochemistry, speciation modeling, and spatial variability of arsenic and fluoride in groundwater from Geita district, northwest Tanzania’</p>	<p>Anastazia Rutatina** ‘DIAMOND Model Accelerates Sanitation Coverage and Protects Water Resources. A Case of FINISH Mondial Project in Tanzania’</p>	<p>Aviti Thadei Mushi ‘Recent Hydro Generation Issues within Tanzania – A Closer Look’</p>
0945hrs - 1000hrs	<p>Chrisogonous Kibugu** ‘Water Demand Assessment of Unguja and Pemba Islands: Towards Vision 2050’</p>	<p>Amour Seleman ‘Towards Safe Toilet Emptying in Unplanned Settlement Areas for Groundwater Contamination Control: A case of Dar es Salaam, Tanzania’</p>	<p>Brown Gwambene ‘Water, energy and agriculture nexus for increased basin management synergies in Ngara District, Tanzania’</p>
1000hrs - 1015hrs	<p>Emmanuel Midheme ‘Reaching beyond the network: The delegated management model of water supply in Kisumu’s informal settlements’</p>	<p>Hossein Miraji Reforestation of the Western Indian Ocean for the Sustainability of Blue Economy: A focus on the Zanzibar Islands</p>	<p>Frem, Michel** ‘Assessing Toroka Sand River’s Characteristics Using Open-Source Data, Local Knowledge and Simple Field Investigations’</p>
1015hrs - 1030hrs	<p>Simon Manda ‘Centrality of a Future Dialogue on Water: Analysing Key Future Water Research Questions’</p>	<p>Gislar Edgar Kifanyi ‘A Novel Approach for Optimum Conjunctive Use Management of Groundwater and Surface Water Resources under Uncertainty’</p>	<p>Femi D. Ogunnigbo** ‘Enhancing Safe Water Supply and Sanitation in Internally Displaced Person Camps: Assessing the Water Management Systems’</p>
1030hrs - 1100hrs	Discussion		
1100hrs - 1130hrs	Health Break		

Time	Activity		
	Room 1	Room 2	Room 3
	Chair: Chair: Dr. Shija Thomas Kazumba Rapporteur: Asha Msoka	Chair: Dr. Sekela Twisa Rapporteur: Naima Hersi	Chair: Dr. Richard Kimwaga Rapporteur: Sharon Richard
	Groundwater assessment in a changing climate	Conjunctive use of surface and groundwater in enhancing water supply and sanitation	Water – Energy -Food security (WEF) Nexus in a changing climate
1130hrs - 1145hrs	Manon Van Goethem** 'The potential of deep groundwater as an alternative fresh water source'	Titilayo Olubunmi Olaposi 'Drinking Water Pollution by Buried Human Remains: Causes, Effects and Mitigation Strategies'	T.P. Chibarabadaa 'Linking conservation agriculture to the 5ps of the sustainable development agenda a Water-Energy-Food-ecosystem nexus perspective'
1145hrs - 1200hrs	Fridtjov Ruden 'Deep freshwater resources onshore Tanzania and offshore in the Zanzibar Channel'	Healy A 'Urban Groundwater in Africa: A dialogue for resilient towns and cities'	Jean Nepo Nsengiyuma 'Integrated Flood Risk Mangement with multi- criteria decision analysis for Sustainable Environment in Mukungwa Catchment of Rwanda'
1200hrs - 1215hrs	Dolphine Teyo Ombasa** 'Multi-criteria approach to assess groundwater potential: a case study of Baringo County, Kenya'	Mendy Zibuvile Shozi** 'Transitioning towards a circular economy: resource recovery and Reuse potential in water and Sanitation, South Africa'	Webster Gumindoga 'Groundwater Potential - A rapid earth observation-based assessment for Zimbabwe's catchments'
1215hrs - 1230hrs	Sylvester Richard Chikabvumbwa** 'GIS-based groundwater recharge zoning amidst climate change: Lessons from Malawi'	Ifedotun Victor Ainaa 'Water management in the presence of drought: Perspectives from residential water regulation in South Africa'	Racheal Macharia** 'Water Energy Food (WEF) NEXUS in a changing Climate environment Aquaculture in Hydropower Reservoirs'
1230hrs - 1300hrs	Discussion		
1300hrs - 1400hrs	Closure Session (See Separate Programme)		
1400hrs - 1500hrs	Lunch		





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