

CURRICULUM VITAE (CV) FOR PROF. JAPHET J. KASHAIGILI

1.0 PERSONAL HISTORY

1.1 Surname : KASHAIGILI
1.2 Other names : Japhet Joel
1.3 Date of Birth : 28th October 1968
1.4 Place of Birth : Bukoba, Kagera, Tanzania
1.5 Nationality : Tanzanian
1.6 Marital Status : Married
1.7 Number of children : Four



2.0 ADDRESSES

Mailing Department of Forest Resources Assessment and Management,
College of Forestry, Wildlife and Tourism,
Sokoine University of Agriculture, P.O. Box 3013, Chuo Kikuu, Morogoro,
Tanzania.

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3.0 ACADEMIC QUALIFICATIONS

Qualification	Year Attended	Institution attended
PhD	2002 - 2006	Sokoine University of Agriculture
Master of Science in Water Resources Engineering	1998 - 2000	University of Dar es Salaam
BSc. Civil Engineering	1993 -1997	University of Dar es Salaam
Diploma in Hydraulics of river basins and Remote sensing	2001	Hydraulic Research Institute, Barrage, Cairo, EGYPT

4.0 TRAINING AND OTHER QUALIFICATIONS

- 4.1 Leadership Training, 21st – 23rd October, 2020, ICE, Sokoine University of Agriculture, Morogoro, Tanzania
- 4.2 UPGro, AfriWatSan & The Chronicles Consortium Capacity-strengthening & Knowledge Co-production workshop held on 10th to 12th February 2017, NCMC, Sokoine University of Agriculture, Morogoro, Tanzania
- 4.3 Training on gender and irrigation workshop, Tanzania ILSSI, April 20-21, 2016, Protea Courtyard Hotel, Dar es Salaam, Tanzania
- 4.4 RIOS/ InVEST Modeling Training, 2nd - 6, February 2015, ICIPE, Duduvile, Nairobi, Kenya
- 4.5 Open source Geospatial data processing for REDD+ Applications, 4th -6th November 2014, Regional Centre for Mapping Resources for Development, Nairobi, Kenya

- 4.6 Training on SWAT Applications, Feed the Future Innovation Lab for Small-Scale Irrigation, IDSS Workshop, held on 27th -31st July 2015, Sokoine University of Agriculture, Tanzania.
- 4.7 The Second Annual Natural Capital Project Meeting and Training on InVEST (Integrated Valuation of Environmental Services and Tradeoffs), held on 26th – 28th March 2014, Stanford University, California, U.S.A.
- 4.8 Training on Airborne Laser Scanned (ALS) and Synthetic-Aperture Radar (SAR) Applications in Forest Inventories and Biomass Estimation, held on 11th to 22nd March 2013, GIS Laboratory, Sokoine University of Agriculture, Morogoro, Tanzania
- 4.9 Training on Environmental Flows Assessment for Enhanced Decision Making in the Mara River Basin, held on 23rd - 26th May 2012, Sosa Cottages, Vhiga, Kenya
- 4.10 Training on Economic Evaluation of Ecosystem Services, held on 18th -20th April 2012, Lutheran Uhuru Hostel, Moshi, Tanzania
- 4.11 Training on the TerrAmazon System in CRA, organized by INPE and UN-REDD/FAO, held in Belem, Brazil from 2nd - 13th April, 2012.
- 4.12 Methods for Biomass Estimation and Forest Cover Mapping in the Tropics: From Carbon Policy to Technical Training, organised by The Woods Hole Research Center, held on June 21st – 24th, 2011 at Gorilla Hotel, Ruhengeri, Rwanda
- 4.13 Training in GIS and Remote Sensing Applications with Integrated LiDAR Data and Ground Based Inventories for Forest Biomass Mapping. A short course training conducted between SUA and ARBONAUT of Finland, held on 1st -14th November 2011 at ICE Hall, SUA, Morogoro, Tanzania
- 4.14 Land Suitability Assessment Training, developed under the FAO Bioenergy and Food Security (BEFS) project, held on April 26-30, 2010 at Sokoine University of Agriculture, Morogoro.
- 4.15 E-Learning for Integrated Watershed Management, 14th to 18th December 2010. Held at the Institute of Marine Sciences (IMS) in Zanzibar. Funded by the German Academic Exchange Service (DAAD), co-financed by the EU-Project “Capacity Building for Integrated Watershed Management” and United Nations University.
- 4.16 DAAD Alumni Summer School, Training on Integrated Watershed Management –Financial Aspects of Watershed Management, 12th to 25th of September 2010, Kilimanjaro Cranes Hotel, Tanzania
- 4.17 Introduction to Thematic Cartography and ArcGIS 9.2. Course offered by Conservation International at Sokoine University of Agriculture, Feb. 16th – 19th 2009.
- 4.18 Modelling Ecosystem Services and Flows using InVest Extension to ArcGIS. Course offered by the Natural Capital Project of the collaboration between Stanford University and WWF US at Sokoine University of Agriculture, Mar 3rd – 6th 2009.
- 4.19 DAAD Alumni Summer School, Training on Integrated Watershed Management –Financial Aspects of Watershed Management, 14th - 26th September 2009, Kilimanjaro Cranes Hotel, Tanzania
- 4.20 People, Poverty and Natural Resources Management, PLAAS-IUCNROSA, University of Western Cape, Cape Town, SOUTH AFRICA (RSA), 2003.
- 4.21 Participatory research methods, Sokoine University of Agriculture, 2004
- 4.22 Environmental Flows Assessment, VETA-Mbeya, TANZANIA (TZ), 2003.
- 4.23 Waste Management Technologies (Course co-organized by SANTREN and CDG in Cooperation with the University of Malawi, The Polytechnic), Blantyre, MALAWI, 2000.

- 4.24 GIS applications in Water Resources Management and Natural resources management, University College of Lands and Architectural Studies (UCLAS), Tanzania (TZ), 2000.
- 4.25 Rainwater harvesting technologies in Semi Arid Areas. Nile Basin Capacity Building Network (NBCBN), Hydraulic Research Institute, Barrage, Cairo, EGYPT. 2000

5.0 STUDY, FELLOWSHIPS AND RESEARCH GRANTS

- 5.1 Sokoine University of Agriculture Recognition Award in Research: **Best Researcher** in Attracting Research Grants to SUA for academic year 2018/2019.
- 5.2 **Best Worker** (Overall - University level) for year 2017, Sokoine University of Agriculture
- 5.3 **Best Worker** for year 2018, College of Forestry, Wildlife and Tourism, Sokoine University of Agriculture
- 5.4 Irish study fellowship award (1999)
- 5.5 Scottish Executive Fellowship, Centre for African Studies, University of Edinburgh (2007)
- 5.6 Irish study fellowship award (1999)
- 5.7 Research on Poverty Alleviation (REPOA) (2010)
- 5.8 CCIAM Research Grant - Analysis of the impacts of urban land use and climate change on coastal forest ecosystem and management (2010-2013).
- 5.9 EPINAV Research Grant - Institutional evolutions at macro and micro-levels in the management of water catchments and their influences on local community livelihoods under a climate change scenario in Tanzania (2011-2014)
- 5.10 VicRes Research Grant - Improving Beef Cattle Productivity for Enhanced Food Security and Efficient Utilization of Natural Resources in the Lake Victoria Basin (2012-2014)
- 5.11 GroFutures Catalyst Research Grant - Groundwater Futures in Sub-Saharan Africa (2013-2014)
- 5.12 Water, Land and Ecosystem Project: Laying the foundations for effective landscape-level planning for sustainable development in the SAGCOT corridor: Ihemi agricultural development cluster (2015-2016).
- 5.13 Banking the Rain - EPSRC Global Challenges Research Fund: Enhancing the resilience of water supplies in dryland Africa (2016-2017).
- 5.14 CommClim: NERC International Development Innovation and Impact Awards: Communicating climate futures to end users in Malawi and Tanzania (2016-2017).
- 5.15 UMFULA: Uncertainty reduction in Models for Understanding development Applications (2015-2019)
- 5.16 GroFutures: Groundwater Futures in Sub-Saharan Africa (2015 – 2020).
- 5.17 FCFA-Innovation: Price Waterhouse Coopers Research Grant - Future Climate for Africa Innovation fund (2017-2019).
- 5.18 DCP: Development Corridors Partnership - Building Capacity in Africa and China for Sustainable Development Corridors (2017-2021).
- 5.19 TRADEHUB: UKRI GCRF TRADE, Development and the Environment Hub Creating a Sustainable World for People and Biodiversity (2018-2022).
- 5.20 Sustainable Catchment Management through Enhanced Environmental Flow Assessment and Implementation for the protection of the Western Indian Ocean from land-based sources and activities in Tanzania (2019-2021).

- 5.21 Sokoine University of Agriculture, Researchers, Academicians and Allied Workers Union (RAAWU) Best Worker's Award (**Mfanyakazi Hodari**), 2008.

6.0 AREAS OF SPECIALIZATION

- Water Resources and Environmental Management
- Integrated Land and Water Resources Management
- Agricultural water management
- Eco-hydrology
- Environmental Flows Assessment
- Wetland Ecosystems and Management
- Hydrological Modelling
- Groundwater Modelling
- Survey and Mapping
- Valuation of Ecosystem Services
- Information Communication Technologies
- Climate change, mitigation and adaptation
- Ecosystem based adaptation
- Applied Remote Sensing and Geographic Information System

7.0 PROFESSIONAL EXPERIENCE

7.1 Academic posts held

Post:

Date:

Professor

01 July 2020 to date

Coordinator - Research and Publications

01 July 2020 to date

Head of Department

01 July 2017 - 30 June 2020

Associate Professor

01 July 2013 - 30 June 2020

Senior Lecturer

01 July 2010 - 30 June 2013

Lecturer

December 2006 – 30 June 2020

Assistant Lecturer

August 2006 - December 2006

7.2 Previous working experience

Part-Time Lecturer, Department of Agricultural Engineering and Land Planning, Sokoine University of Agriculture, Tanzania. 2005 – July, 2006.

Responsible for preparation of lecture materials; instruction in Materials Technology for Agricultural Engineering; instruction in Soil Dynamics and Foundation Engineering (some sub-topics include: soil profiles, soil classification, texture, organic matter, hydraulic properties of soils).

Part-Time Tutor, Ministry of Agriculture Training Institute (MATI) - Igurusi, Mbeya, Tanzania. 2002 - 2004: Responsible for preparation of lecture materials and instruction in Irrigation Engineering; Capacity building in determination of discharges, design of open and closed channels, selection of proper location for intakes and intakes designs for water supply and irrigation systems.

Part-Time Lecturer, Department of Environmental Engineering; and Department of Urban and Regional Planning of the Ardhi University, Tanzania. 2000 - 2001.

Responsible for preparation of lecture materials; instruction in Fluid Mechanics; instruction in Urban Infrastructure Planning; capacity building in the design of open and closed channels for urban drainage and irrigation systems; urban drainage management and capacity building in determination of runoff and design of urban drainage systems.

Research Associate, Soil-Water Management Research Programme of Sokoine University of Agriculture: April 2002 – June 2006.

Responsible for database management, critically analyses and evaluation of water resources and management of the users in the Usangu Plains; piezometer installation and groundwater monitoring inside the wetland, evaporation and rainfall monitoring in a wetland, wetland soil profile and analysis for texture, colour, organic matter contents, pH, hydraulic conductivity, salinity (electrical conductivity), river flows analysis, assessment of water uses and over time; assessment of role of the intermediate wetlands to downstream dry season flows; assessment of water requirements for different water users in the Usangu Plains; environmental flows assessment for the wetlands and the Great Ruaha River; preparation of technical reports and production of dissemination materials for stakeholders.

Research Assistant, University of Dar es Salaam, Water Resources Engineering Programme: 2000 – 2001.

Responsible for database management; Rainfall-Runoff modeling for the Mtera-Kidatu and Kilombero sub catchments; estimate flows for ungauged (Luwegu) sub catchment; estimate basin potential evapotranspiration; hydrological modeling using HEC-RAS and HEC-HMS models; Real Time Forecasting for the Lower Rufiji Floodplains; analyze and prepare flood maps for the lower Rufiji flood plains.

Site Engineer, ESTIM Construction Company Limited and GWEMAH Contractors, Dar Es Salaam, Tanzania: July 1997 – October 1998.

Major responsibilities include planning for all site works, estimation of quantities and material testing and supervision of all site works. Supervised road construction works for Ilala district and Mwananyamala roads in Kinondoni district. Supervised a multi-storey reinforced concrete Industry complex for Bakhressa Flour Mills along Nyerere road. Supervised construction of printing godown at the National Examinations Council of Tanzania (NECTA).

Engineer Trainee, Burrow Binnie and MAK Consult, Dar Es Salaam, Tanzania: July 1996 – Sept. 1996.

Responsible for hydrological analysis for catchment contributing areas and determination of runoffs; design of culverts and structural design of reinforced structures; estimation of quantities and preparation of bills of quantities

8.0 ACTIVITIES AND RESEARCHES

8.1 Teaching

Principles of Remote Sensing and GIS for Undergraduate Forestry and Wildlife Students; Survey and mapping for Undergraduate Forestry Students; Wetland Ecosystems and their Management for undergraduate Soil Science Students; Resource Assessment and Advanced GIS and Remote Sensing: Applications in Forestry for Postgraduate Students.

8.2 Research

- 8.2.1 Groundwater Management by Using Mathematical Modeling: Case of the Makutupora Groundwater Basin in Dodoma, Tanzania. Research carried out as a requirement for partial fulfillment for MSc. Degree in Water Resources Engineering of University of Dar es Salaam, (2000). Sponsored by Irish Government. *Researcher*
- 8.2.2 Development of a Computerized Flood Warning Model and Study of Hydrological Characteristics of the Lower Rufiji Floodplain and Delta, implemented by Water Resources Engineering Programme (WREP) of the University of Dar Es Salaam. (2000 – 2001). *Researcher*
- 8.2.3 Raising Irrigation Productivity And Releasing Water for Intersectoral Needs (RIPARWIN). Funded by DFID – Knowledge and Research (KAR), Co-managed by Sokoine University of Agriculture (Tanzania); The University of East Anglia (UK) and The International Water Management Institute (South Africa). (2002-2005). *Researcher*
- 8.2.4 Land cover dynamics and hydrological functioning of wetlands in the Usangu Plains, Tanzania. Research carried out as a requirement for Doctor of Philosophy Degree of Sokoine University of Agriculture, Tanzania (2002 – 2006). Sponsored by International Water Management Institute (IWMI). *Researcher*
- 8.2.5 Freshwater conservation and climate change adaptation case study for people in the Great Ruaha River catchment area – Iringa and Mbeya Regions. Funded by WWF, 2008. *Researcher*
- 8.2.6 Impact and Efficacy of Traditional Beekeeping Practices in Forest Resources Management: A Case of Singida and Tabora Regions, Tanzania. Funded through NFBKP of MNRT, 2009. *Researcher*
- 8.2.7 Assessing the Impact of Forestland Tenure Changes on Forest Resources and Rural Livelihoods in Tanzania. Funded by Tanzania – Norway NUFU Programme, 2007 – 2011. *Researcher*
- 8.2.8 Effect of poverty on equity in community based forest management in Mufindi district, Tanzania” funded by Research on Poverty Alleviation (based in Tanzania) -2010-2011. *Researcher*
- 8.2.9 Climate Change Impact Assessment and Adaptation options in vulnerable agro-landscapes in East-Africa. Financed by the GTZ/BMZ Research Programme: “Adaptation of African Agriculture to Climate Change” (2008-2011). *Researcher*
- 8.2.10 Analysis of the impacts of urban land use and climate change on coastal forest ecosystem and management. Funded by CCIAM Programme. 2010-2013. *Researcher*
- 8.2.11 Institutional evolutions at macro and micro-levels in the management of water catchments and their influences on local community livelihoods under a climate change scenario in Tanzania. Funded by EPINAV Research Programme. 2011-2014. *Researcher*
- 8.2.12 Enhancing Measurement, Reporting and Verification - LiDAR/GEO FCT-project.

Funded by the Norwegian Government. 2011 to 2015. *Researcher*

- 8.2.13 Climate Change Impacts on Ecosystem Services and Food Security in Eastern Africa (CHIESA), Increasing Knowledge, Building Capacity and Developing Adaptation Strategies. *icipe*. 2011-2015. *Researcher*
- 8.2.14 Improving Beef Cattle Productivity for Enhanced Food Security and Efficient Utilization of Natural Resources in the Lake Victoria Basin. Funded under VicRes Programme. 2012-2014. *Researcher*
- 8.2.15 GroFutures: Groundwater Futures in Sub-Saharan Africa. Catalyst Grant, Funded by the Natural Environment Research Council (NERC), UK. 2013-2014. Principal Investigator
- 8.2.16 LiFELand: Laying the foundations for effective landscape-level planning for sustainable development in the SAGCOT corridor: Ihemi agricultural development cluster. Funded by CGIAR-WLE, 2015-2016. Principal Investigator
- 8.2.17 Increasing irrigation water productivity in Mozambique, Tanzania and Zimbabwe through on-farm monitoring, adaptive management and Agricultural Innovation Platforms. Funded by ACIAR. 2013-2017. *Researcher*
- 8.2.18 GroFutures: Groundwater Futures in Sub-Saharan Africa. Funded by the Natural Environment Research Council (NERC), UK. 2015-2020. Principal Investigator
- 8.2.19 UMFULA: Uncertainty reduction in Models for Understanding development Applications. Funded by the Natural Environment Research Council (NERC), UK. 2015-2019. Principal Investigator
- 8.2.20 Woody Invasive Alien Species in East Africa: Assessing and Mitigating their Negative Impacts on Ecosystem Services and Rural Livelihoods. Funded by Swiss Agency for Development and Cooperation and Swiss National Science Foundation. September 2014 – August 2020.
- 8.2.21 Banking the Rain: Enhancing the resilience of water supplies in dryland Africa EPSRC Global Challenges Research Fund (2016-2017).
- 8.2.22 CommClim: Communicating climate futures to end users in Malawi and Tanzania NERC International Development Innovation and Impact Awards (2016-2017).
- 8.2.23 FCFA-Innovation: Future Climate for Africa Innovation fund. Funded by Price Waterhouse Coopers Research Grant -(2017-2019).
- 8.2.24 The Development Corridors Partnership: Building Capacity in Africa and China for Sustainable Development Corridors. Funded by GCRF, Research Councils, UK (2017-2021).
- 8.2.25 Trade Hub project: UKRI GCRF TRADE, Development and the Environment Hub Creating a sustainable world for people and biodiversity (UKRI GCRF) (2019-2022).
- 8.2.26 Sustainable Catchment Management through Enhanced Environmental Flow Assessment and Implementation for the protection of the Western Indian Ocean from land-based sources and activities in Tanzania (2019-2022).

8.3 Students' supervision

8.3.1 BSc. Students (since 2014)

- 8.3.1.1 Erasto Esheyahu (2014). Influence of Beehive Types and Beekeeping Equipment in Production of Honey and Bees-Wax in Manyoni District, Singida
- 8.3.1.2 Kamungu Asha (2014). Birds' Abundance and Distribution Between Grassland and Forest Habitats: A Case of Kibena Village
- 8.3.1.3 Tumaini Masatu (2014). Effects of Climate Change on Crop Production in Gairo District, Tanzania
- 8.3.1.4 Kabusi Yona (2015). Mapping of the Tree Carbon Stock at the Sokoine University of Agriculture Main Campus
- 8.3.1.5 Azizi Ambweni, A. (2015). Contribution of Taungya System on Food Security of The Community Around SUATF – Olmotonyi, Tanzania
- 8.3.1.6 Abdallah Baraka (2015). Influence of Nursery Soils Potting Mixtures on *Pinus Patula* Seed Germination and Seedling Growth
- 8.3.1.7 Livigha, Deodatus T. (2016). Contribution of Rondo Forest Plantation to Household Incomes of Surrounding Communities
- 8.3.1.8 Mabula Nindwa Sebastian (2016). Analysis of Land Cover Change in Geita Forest Reserve Tanzania
- 8.3.1.9 Kyaruzi Mzamiru Amin (2016). Contribution of Minziro Forest Reserve to the Livelihoods of Surrounding Communities
- 8.3.1.10 Sospeter Anicia (2017). Tree Species Composition and Diversity Gradient in Kitulagh'alo Forest Reserve
- 8.3.1.11 David Kambulaje R. (2017). Influence of Wood Resources Revenue Collection on Forest Degradation in Geita Forest Reserve Tanzania.
- 8.3.1.12 Mwapila Bernard G. (2017). Effects of Wildfire on Forest Structure and Tree Species Diversity in Bunduki Forest Reserve, Tanzania
- 8.3.1.13 Kahemela Cleria Atilio (2017). The Role of Sao Hill Forest Plantation on the Livelihoods of Adjacent Communities
- 8.3.1.14 Sadiki Mohamedi (2018). Impacts of disturbances on tree species composition and structure in Mtuli-hinju forest reserve in Mtwara District
- 8.3.1.15 Elia Nelson, K (2018). Assessment of the extent of illegal activities and their effects on forest plantation: a case study of Kawetire forest plantation in Mbeya district, Mbeya Region
- 8.3.1.16 Evelina Eugen Silayo (2019) Influence Of Anthropogenic Activities On Forest Cover Change in Uluguru Nature Forest Reserve
- 8.3.1.17 Joseph Jovin (2020) Determination of rural communities participation in conservation of Biharamulo forest reserve in Biharamulo District, Kagera Region

- 8.3.1.18 Kapyela Habil Tabley (2020) Assessment of factors influencing the adoption of agroforestry practice in Mzumbe ward, Mvomero District in Morogoro Region.
- 8.3.1.19 Kitano Benson S. (2020) Assessment of honey and beeswax production and its contribution to household income in Chunya District
- 8.3.1.20 Tate, Meja (2020) Contribution of Monduli catchment forest reserves to the household's income
- 8.3.1.21 Urio, Necta F. (2020) Analysis of Biomass Briquette and wood charcoal preferences in Mlandizi ward, Kibaha District, Tanzania
- 8.3.1.22 Abdallah Zanieli (2021) Role of Plantation Forestry in Addressing Climate Change Adaptation in Shume Magamba Forest Reserve, Tanzania
- 8.3.1.23 Eliabu, Allan Elisha (2021) Effects of Upstream Wetland Encroachment on Mindu Dam in Morogoro Municipality
- 8.3.1.24 Mungas Simel Lomnyaki (2021) Analysis of Water Use Conflicts Between Upstream and Downstream Communities: A Case of Sambasha Ward in Arusha District Council, Tanzania
- 8.3.1.25 Kamala, Angel Michael (2021) Evaluation of Effectiveness of Pesticidal Plant (*Int'embwe*) in Pest Management
- 8.3.1.26 Katosho Aron Josephath (2021) Investigation of the Methods for Breaking Seed Dormancy of *Umushindwi* (*Anisophyllea Boehmii*) in Germination Optimization and Wood Domestication Process

8.3.2 Master of Science (MSc)

- 8.3.2.1 Usanzineza, D. (2008). Heavy metal pollution and nutrient levels in Lake Muhazi, National University of Rwanda, Rwanda
- 8.3.2.2 Majaliwa M. A. (2008). The Impact of Land Use and Land cover Changes on Dry Season Water Flow: a case study of Malagarasi – Muyovozi Wetland in Malagarasi River Catchment, Tanzania
- 8.3.2.3 Mlengera, N. (2008). Influence of cover crop *Lablab purpureus* and maize crop residues on soil moisture content for irrigated maize in the Usangu Plains, Tanzania
- 8.3.2.4 John, Bernadol (2009). Assessment of forest cover and use changes under different tenure regimes: a case of Babati District, Manyara Region
- 8.3.2.5 Njahani, A.I. (2010). Impact of Refugees on Forest Resources In Kasulu District, Tanzania
- 8.3.2.6 Mwakasendo, C.A. (2010). Impact of Community Based Forest Management on Livelihoods: A Case of Suledo Community in Kiteto District
- 8.3.2.7 Richard F. (2011). Simulation of water productivity of maize under drip irrigation
- 8.3.2.9 Masenga, E.H. (2011). Abundance, Distribution and Conservation Threats of

African Wild Dog (*Lycaon Pictus*) in the Loliondo Game Controlled Area, Tanzania

- 8.3.2.10 Nzunda, N.G. (2011). Factors Influencing Landuse and Vegetation Cover Change around Kagoma Forest in Muleba District, Northwestern Tanzania
- 8.3.2.11 Tavengwa, C. (2013). Effect of Land Use Practices on Soil Moisture, Infiltration, Erosion and Crop Yield in Semi-Arid Zimbabwe.
- 8.3.2.12 Nyambala, L.S. (2013) Effect of Refugees on Plant Diversity, Forest Stocks and Forest Cover in North-East Mpanda Forest Reserve, Mpanda District, Tanzania
- 8.3.2.13 Nzunda, H.P. (2013) Impacts of Mining on Land Use and Land Cover in Mbozi District, Tanzania
- 8.3.2.14 Muhe, D.J. (2013) Impact of Wami-Mbiki Community Based Protection and Utilization Project on Land Cover in Wami-Mbiki Wildlife Management Area (WM-WMA) -Tanzania
- 8.3.2.15 Maganga, C. J. (2013) Influence of Climate Variability on Wetland Cultivation: A case of Lake Victoria shoreline wetlands in Misungwi District
- 8.3.2.16 Nduganda, A.R. (2013) Forest Cover and Carbon Stock Changes in Pugu and Kazimzumbwi Forests Reserves in Kisarawe District, Tanzania
- 8.3.2.17 Siwa, E. (2013) Rangeland monitoring and assessment for improved beef cattle production under Changing Climatic Conditions using Remote Sensing and GIS: a case of Ilemela and Magu Districts in the Lake Victoria Basin, Tanzania.
- 8.3.2.18 Stephen, C. (2014) Willingness to pay for Ecosystem Services in Mount Kilimanjaro Areas and Taita Hills, Kenya.
- 8.3.2.19 Laswai, E. (2014). Evaluation of Coping strategies of Pastoral Communities to the Effects of Climate Variability in Magu and Ilemela Districts, Tanzania
- 8.3.2.20 Lonze Lusani Ndelwa (2014) Role Of Water User Associations in Management of Water Use Conflicts: A Case of Ilonga Sub-Catchment in Wami-Ruvu Basin, Tanzania
- 8.3.2.21 Lucas, Theodory, (2014) Impacts of Climate Variability and Land Cover/ Use Change on Stream Flow in Little Ruaha Catchment, Tanzania.
- 8.3.2.22 Simon Kitereja (2015) Effects of Forest Cover Change on Carbon Sequestration In Miombo Woodlands: A Case of Mbiwe Forest Reserve
- 8.3.2.23 Benedict, Basil (2016) Impact of Irrigation Intervention on Livelihoods: A Case of Ndanda Irrigation Scheme in Masasi District, Tanzania.
- 8.3.2.24 Chilagane Nyemo A. (2017) Impact of Land Use and Land Cover Change on Ecosystem Services in the Little Ruaha River Catchment, Tanzania.
- 8.3.2.25 Ruth Emmanuel (2017) Exploring the use of Climate Information for Decision Making Process in Improving Agriculture Production in Tanzania: A case of Kilombero River Catchment, Morogoro Region.

- 8.3.2.26 Gama, Doris G. (2018) Economic viability of groundwater use for irrigation by small scale farmers in Usangu plains, Mbarali District, Tanzania.
- 8.3.2.27 Emmanuel Lorivi Moirana (2018) Use of Climate Information in water conservation decisions in Kilombero River Catchment, Rufiji Basin Tanzania.
- 8.3.2.28 Innocent Patrick Lyamuya (2018) Impact of climate change on irrigation water requirements in the Mbarali River catchment, Tanzania.
- 8.3.2.29 Magdalena J. Mkhandi (2019) Climatic Change Impacts on Hydrological Extremes and Urban Infrastructures in Ifakara Township, Kilombero District, Tanzania.
- 8.3.2.30 Vaileth Mashauri (2020) Influence of Tree Farming on Provisioning Ecosystem Services and Community Livelihoods in Mufindi District, Tanzania
- 8.3.2.31 Nnko, Lazaro Elibariki (*analysis and drafting*) Evaluation of agroforestry potential for climate change adaptation in the SAGCOT corridor, Tanzania
- 8.3.2.32 Natasha Riverson Mamuya (*analysis and drafting*) Impact of climate change on Biodiversity and ecosystem services in the SAGCOT, Tanzania
- 8.3.2.33 Hillary T. Mrosso (*analysis and drafting*) Assessment of Trade Flows of Wildlife Products from Tanzania: A Case of Ruaha Ecosystem, Tanzania
- 8.3.2.34 Thomas Sahinkuye (*analysis and drafting*) Modelling Groundwater-Surface Water Interactions and Recharge Dynamics in Usangu Plains, Tanzania

8.3.3 Doctor of Philosophy (PhD)

- 8.3.3.1 Cellina Lucas Mongo (2013). Influence of Forest Land Tenure Types on Forest Resources and Livelihood: a case of Babati District, Tanzania.
- 8.3.3.2 Nkonoki, J. (2014). Wetland conversion and farmers perceptions on land degradation: a case of Bahi swamp in Dodoma, Tanzania.
- 8.3.3.3 Mwakapuja, F. (2016) Modelling Land use change in Coastal Forests and Peri-Urban area: The Case of Pugu/Kazimzumbwi Forest Reserves and Dar Es Salaam Peri-Urban
- 8.3.3.4 Njana M.A. (2015). Carbon storage and cover dynamics of mangrove forests of Pangani and Bagamoyo in Tanzania
- 8.3.3.5 Makero, J.S. (2017). Dynamics of Thicket Vegetation Cover and Carbon Stock in Itigi, Tanzania
- 8.3.3.6 Edmund Mutayoba (2019) Development of Framework for Improving Climate Change Model Predictions in Water Resources: A Case of Great Ruaha Sub-Basin, Tanzania

- 8.3.3.7 Amina A. Hamad (2021) Distribution of Lantana Camara and its Impacts on Biodiversity and Ecosystem Services in East Usambara Mountains, Tanzania
- 8.3.3.8 Saria Godlisten Abeli (*Thesis writing*) Changes in Land Use Intensification and its Implications on Ecosystem Services in Agroforestry Systems of Northern Tanzania

9.0 CONSULTANCIES

- 9.1 Opportunities for enhancing the productivity of water in crop production in the Mkoji Sub-Catchment (MSC) for both rainfed and irrigated farming. A Project commissioned to Soil-Water Management Research Group (SWMRG) of the Sokoine University of Agriculture by the Food and Agriculture Organization of the United Nations (FAO) (2003-2004). Worked as a Water resources / GIS specialist.
- 9.2 Assessment of the area of forest remaining on the Eastern Arc Mountains and the rates of forest change over the previous decade. Consultancy commissioned to FORCONSULT by UNDP (00015426-Eastern Arc Mountains Project) (2004-2005). Worked as a Remote sensing/GIS Specialist.
- 9.3 Preparation of the National/ Regional Management Framework: Institutional Component for the Lake Victoria Basin. A project commissioned to SMEC International Pty, Ltd by the Ministry of Water during preparation for Phase 2 of the Lake Victoria Environmental Management Project (LVEMP-2), (June – August 2006). Worked as Natural Resources Management and Community Participation Specialist.
- 9.4 Assessment of the baseline status of current forest cover and forest change in the Coastal Forests of Kenya and Tanzania. Landsat TM (+), Quick bird images and digital aerial photographs were used to quantify forest and woodland degradation. GIS layer of Key Biodiversity Areas (KBA's) was overlaid to assess the status of critically endangered and endangered species. A consultancy commissioned by Applied Biodiversity Science, Conservation International (CABS/CI) (2005-2006). Funded by Critical Partnership Fund (CEPF). Worked as Remote Sensing Specialist
- 9.5 Conducted a survey on Adoption and Technical Performance Evaluation of the Swiss Concrete Pedal Pump. Sponsored by IPTRID (2007).
- 9.6 Consultancy for Assistance in the Development of a One UN Joint Programme (JP6) in North Western Tanzania -(Kagera and Kigoma Regions). A consultancy project commissioned to Business Care Services Limited by the United Nations Development Programme (UNDP) (2008). Worked as Environmental Specialist.
- 9.7 Conducted a study on the Impacts of Fish Farming on Water Resources Management in Mkoji Sub-Catchment of the Great Ruaha River Catchment in Mbeya Region. Funded by WWF-TPO (2009).
- 9.8 Updating forest cover and forest change between 2000-2008 in the Eastern Arc Mountains and Coastal Forests of Kenya and Tanzania. Collaborating with Conservation International Foundation (USA), Funded by Critical Partnership Fund (CEPF) and MNRT (2009-2010). Worked as Remote Sensing Specialist
- 9.9 Development Master Register for Kagera Outgrowers in Misenyi District, Kagera Region in Tanzania. A consultancy commissioned to BACAS by Sugar Board of Tanzania. (2011-

2012). Team Leader and a Remote Sensing Specialist

- 9.10 Baseline Surveys in 8 Nature Reserves and 1 National Park in the Eastern Arc Mountains of Tanzania. A consultancy commissioned to FORCONSULT by Eastern Arc Mountain Conservation Endowment Fund (EAMCEF). (2012). Worked as a GIS & Remote Sensing Specialist
- 9.11 Analysis of Land Cover and Change of the Ruvuma Landscape – Tanzania and Mozambique. A consultancy commissioned to FORCONSULT by WWF-TCO (2013-2014). Worked as a Team Leader.
- 9.12 Update the Forest Cover and Change Analysis of the Eastern Arc and Coastal Forests Region of East Africa. A consultancy commissioned to FORCONSULT by CI (2013-2014). Worked as a Team Leader.
- 9.13 Endline Surveys in 8 Nature Reserves and 1 National Park in the Eastern Arc Mountains of Tanzania. A consultancy commissioned to FORCONSULT by Eastern Arc Mountain Conservation Endowment Fund (EAMCEF). (2016-2017). Working as a GIS & Remote Sensing Specialist.
- 9.14 Capacity building on preparation of hydrogeological map of Makutupora well field. A consultancy commissioned to FORCONSULT by WamiRuvu Basin (2017). Worked as a Team Leader and Remote Sensing Specialist
- 9.15 Rapid Environmental Flow Assessment for Zigi River Catchment. A consultancy commissioned to FORCONSULT by Pangani Basin Water Board (PBWB). (2016-2017).
- 9.16 Economic Analysis of Water Use of Lower Kihansi Hydropower (LKHP). A consultancy commissioned to FORCONSULT by National Environment Management Council. (2017-2018). Working as Hydrologist.
- 9.17 Environmental Flow Assessment for Zigi River Catchment. A consultancy commissioned to FORCONSULT by Pangani Basin Water Board (PBWB). (2017-2018). Working as a Worked as a Team Leader and Hydrologist.
- 9.18 Environmental Flow Assessment for Ruvu River Catchment. A consultancy commissioned to FORCONSULT by WamiRuvu Basin Water Board (WRBWB). (2018). Worked as a Team Leader and Hydrologist.
- 9.19 Ecological and Socio-economic Survey in Pugu, Vikindu and Kazimzumbwi Forest Reserves in Kisarawe and Mkuranga Districts Coast Region. A consultancy commissioned to FORCONSULT by WWF-TCO (2020). Working as a GIS & Remote Sensing Expert.

10.0 MEMBERSHIP IN PROFESSIONAL ORGANISATIONS/ BOARDS/COMMITTEES

- 10.1 Member of Board of Directors, National Commission for UNESCO (NATCOM), Ministry of Education, Science and Technology
- 10.2 Chairperson, Intergovernmental Hydrological Programme (IHP) National Committee for UNESCO, Ministry of Water
- 10.3 Member - Soil Science Society of East Africa (SSSEA)
- 10.4 Member - Tanzania Association of Foresters (TAF)

- 10.5 Member – Southern Africa Climate Change Network (SACCNet)
- 10.6 Member - Wetland International
- 10.7 Representative of CFWT to Demo Unit of SUA under Technology Transfer Office
- 10.8 Member - The Tanzania Higher Learning Institutions Trade Union (THTU)
- 10.9 Member - Sokoine University of Agriculture Academic Staff Association (SUASA).
- 10.10 Member – College Board, CFWT
- 10.11 Member - International Association of Hydrogeologists (IAH)
- 10.12 Advisor – Ihemi Cluster Green Reference Group (IGRG) of SAGCOT
- 10.13 Member – Uhakika wa Maji Project Advisory Board Committee
- 10.14 Member – Water Sector Climate Change Coordination Mechanism Dialogue Forum
- 10.15 Member and Co-Chairperson: College of Forestry, Wildlife and Tourism Training Fund
- 10.16 Member – SUA Tender Evaluation Committee.
- 10.17 Member – SUA Works Quality Inspection Team for Construction of Multipurpose Science Laboratory Building at SUA Main Campus.
- 10.18 National Expert & Chairperson, WIOSAP Regional Task Force for Component C on Sustainable Management of River Flows.
- 10.19 Member - Engineers Registration Board, Tanzania (ERB)
- 10.20 Member - Tanzania Society of Agricultural Engineers (TSAE)

11.0 WORKSHOPS/SEMINARS/CONFERENCES/SYMPOSIA ATTENDED

- 11.1 2nd Sokoine University of Agriculture (SUA) Scientific Conference on *Research and Technological Innovations Towards Transformation of Lower Middle Income Countries*, 25th - 26th May 2021) Edward Moringe Campus, Sokoine University of Agriculture
- 11.2 Working session Rufiji Model – online water system simulation, 27th November 2020, Virtual, SUA.
- 11.3 4th WIOSAP Project Steering Committee (PSC) Virtual Meeting, SUA
- 11.4 Kikao cha Kujadili Uimarishaji wa Usimamizi wa Eneo Oevu katika Hifadhi ya Misititu ya Asili ya Minziro, 18th – 19th November, 2020, ELCT Bukoba Hotel, Kagera
- 11.5 Stakeholders' Meeting on Mapping of Forest Plantation and Woodlots (Remote Sensing Programme), 10th November 2020, TAFORI HQ, Morogoro
- 11.6 Meeting on Mapping of Forest Plantation and Woodlots (Remote Sensing Programme), 16th October 2020, MNRT Office, Dodoma
- 11.7 Workshop on guidelines for the management of rivers and riverbanks, 6th October 2020 NEMC HQ Dar es Salaam.
- 11.8 DCP Project Mid-term conference, 22nd -25th September 2020, Virtual, SUA, Morogoro.

- 11.9 KAKONO Environmental Flows Assessment Planning Meeting, 24th August 2020, Virtual, SUA, Morogoro
- 11.10 COSTECH Training Workshop on Research Integrity, 13th -14th August 2020, COSTECH, Dar es Salaam
- 11.11 Camera Trap Training, 1st – 3rd July 2020, SAEBS, SUA, Morogoro
- 11.12 20th International Congress of the African Water Association, 21st to 28th of February 2020, Serena Hotel, Kampala Uganda
- 11.13 Workshop on Ecosystem-based Adaptation for Rural Resilience in Tanzania: Vulnerability and Impact Assessment, 03rd to 4th February 2020, TTSA, TFS, Morogoro
- 11.14 Mainstreaming of Environmental Flows into Integrated Water Resources Management, Three-day Workshop for Managers and Policy-Makers, 25-27 November 2019, Holiday Inn, Cape Town, South Africa
- 11.15 Africa Climate Risks Conference (ACRC) 2019 on Dismantling Barriers to urgent climate change adaptation actions, 7th – 9th October 2019, Addis Ababa, Ethiopia.
- 11.16 Stakeholders' workshop on AMCOW Pan-African Groundwater Program (APAGroP), 1st to 2nd October 2019, Ole Sereni Hotel, Nairobi, Kenya.
- 11.17 DCP Annual Project and Planning meeting, 2nd – 6th September 2019, CAAS, China
- 11.18 DCP project - Stakeholder Consultative meeting, 21st August 2019, Kilombero District Council, Morogoro, Tanzania.
- 11.19 Environmental Flows Capacity Building Meeting to Ministry Officials, 30th -31st July 2019, Ministère de l'Environnement et du Développement Durable, Antananarivo, Madagascar.
- 11.20 UMFULA Project Workshop on Modelling resilient development in the Rufiji River Basin 4th July, 2019, Holiday Inn Dar es Salaam Hotel, Tanzania.
- 11.21 Project Steering Committee (PSC) Meetings for the WIOSAP and SAPPHIRE Projects, 25th -27th June 2019 in Durban, South Africa
- 11.22 MCM Workshop for GROFUTURES Project, 10th - 15th June 2019, Alexander Hotel, Iringa, Tanzania
- 11.23 GIS, Modeling and Social Science Training Workshop, 3rd - 9th June 2019, DEST, Sokoine University Agriculture, Tanzania
- 11.24 Western Indian Ocean Regional Science – Policy Workshop and Regional Stock Taking on Oceanographic Data and Scientific Research in the WIO Region, 27th - 29th May 2019, Sofitel Mauritius L'Impérial Resort & Spa, Flic en Flac, Mauritius
- 11.25 Wami/Ruvu Basin Multi-Stakeholder Water Forum, 8th - 9th May 2019, Stella Maris Hostel, Bagamoyo, Tanzania
- 11.26 Second Workshop of the EPICC Climate Capacities Project, 2nd - 3rd May 2019, Ramada Resort, Jangwani Beach, Dar es Salaam, Tanzania
- 11.27 Climate change adaptation in SAGCOT meetings 15th - 18th April 2019, EDEMA Hotel,

Morogoro, Tanzania

- 11.28 SUA Scientific Conference on Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania, 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania
- 11.29 WIOSAP National Implementing Committee Meeting, 1st - 2nd April, 2019, Holiday Inn Hotel, Dar Es Salaam, Tanzania
- 11.30 First Regional Task Forces meeting for Implementation of the Strategic Action Programme for the protection of the Western Indian Ocean from land-based source and activities (WIOSAP) project, 12 – 13 December 2018, Maputo, Mozambique.
- 11.31 WIOSAP Land Based Sources and Activities Protocol Workshop, 10 – 11 December 2018, Maputo, Mozambique
- 11.32 DCP Project Launch, Building Capacity in Africa and China for Sustainable Development Corridors, 27th – 30th November 2018, Ledger Plaza Bahari Beach Hotel, Dar es Salaam, Tanzania
- 11.33 UMFULA Annual Project Meeting, 19th – 24th November 2018, Ledger Plaza Bahari Beach Hotel, Dar es Salaam, Tanzania.
- 11.34 Annual Meeting for Multi Sectoral Forum for National Water Resources in Tanzania, 15th November 2018, Julius Nyerere International Convention Centre (JNICC), Dar es Salaam, Tanzania.
- 11.35 Multi Sectoral Forum for National Water Resources in Tanzania “*Delivery of infrastructures that enhances water security*”, 14th November 2018, Serena Hotel, Dar es Salaam, Tanzania.
- 11.36 RBWB Workshop on Experience sharing with Water User Associations engagement in River Health Assessment and Launching of TARISS*fupi* training manual and Guideline video for River Health Assessment, 19th October 2018, EDEMA, Morogoro, Tanzania.
- 11.37 Kihansi River Environmental Water Requirement Setting Workshop, 11-12 October 2018, NCMC, SUA, Morogoro, Tanzania.
- 11.38 Launching and Expert Symposium on Development Corridor Partnership, 17-24th September 2018, Park Plaza Beijing Wangfujing, Beijing, China.
- 11.39 Workshop to Discuss Findings of Water Resources Analytics for Investment Prioritization in Rufiji Basin, 29th August 2018, RBWB Conference Room, Iringa, Tanzania.
- 11.40 Validation Workshop on Land Degradation Neutrality Target Setting, 17th August, 2018, National Carbon Monitoring Centre, SUA, Morogoro, Tanzania.
- 11.41 Stakeholder Validation Workshop to review the draft IGG guidelines, 18-19th July 2018, Nashera Hotel, Morogoro, Tanzania.
- 11.42 Ubadilishanaji wa Kilimo cha Umwagiliaji kwa Wakulima wadogo kuwa mifumo yenye faida na kujitegemea kusini mwa Afrika 6th - 8th June 2018, Gentle Hills Hotel, Iringa, Tanzania.
- 11.43 NEMC Workshop on Environmental Impact Assessment of the Stiegler’s Gorge Hydropower Project, Tanzania, 28th May 2018, SUA, Council Chamber, Morogoro, Tanzania.

- 11.44 Stakeholder feedback meeting on Makutapora Well Field sustainability, 15th May 2018 WRBWB Office, Morogoro, Tanzania.
- 11.45 Tanzania Desktop Reserve Model for Environmental Flows (TzDRM) Training Workshop 22nd - 24th May 2018, Nashera Hotel Morogoro, Tanzania.
- 11.46 UMFULA Project Workshop on Modelling resilient development pathways in the Rufiji basin 25th April 2018, Bio-process and Post-harvest Engineering Building Department of Engineering Sciences and Technology, SUA, Morogoro, Tanzania.
- 11.47 ACACIA Project planning meeting in Nairobi, Kenya 12th - 14th March 2018, Fairacres House, Nairobi, Kenya
- 11.48 GroFutures 3rd Annual Workshop 19th to 23rd February 2018, Grand Hôtel du Niger, Niamey, Niger.
- 11.49 IGRG SAGCOT Workshop in Iringa 13th February 2018, Gentle Hills Hotel, Iringa, Tanzania.
- 11.50 Inception Workshop on Advancing Water Resources Management Analytics in support of Multi-Sectorial Coordination and Resilient Investment Prioritization for Rufiji Basin 19th - 22nd January 2018, Hazina Building, DODOMA and RBWB, Iringa, Tanzania.
- 11.51 Tanzania Data Partnership for Inclusive Green Growth 11th December 2017 DLabs, UDSM, Tanzania
- 11.52 Uhakika Wa Maji Phase II Evaluation Meeting 19th - 20th September 2017, Morogoro Hotel, Morogoro, Tanzania
- 11.53 UMFULA Annual Project Meeting and Stakeholder workshop 30th October – 4th November 2017, The Makokola Retreat Mangochi, and SUNBIRD Capital Hotel, Malawi.
- 11.54 National Water Resources Management Multi-Sectoral Forum Meeting and Launching 4th – 5th October 2017, SEA CLIFF, Dar es Salaam, Tanzania
- 11.55 Inception Workshop on Preparation of IWRM&D for Wami/Ruvu Basin 2nd October 2017 Morogoro Hotel, Morogoro, Tanzania
- 11.56 GCRF Project Inception meeting 7th -9th November 2017, White Sands Hotel, Dar es Salaam, Tanzania.
- 11.57 Africa Regional Workshop on Spatial Planning for Protected Areas in Response to Climate Change (SPARC), 11th -12th September 2017, Calders Hotel, Fish Hoek, Cape Town, South Africa.
- 11.58 FCFA Mid-Term Conference 4th - 8th September 2017 Cape Town Lodge Hotel, Cape Town South Africa.
- 11.59 Training workshop on WWF Integrated Management Planning Tool Dar es Salaam 29th – 31st August 2017 Kunduchi Beach Hotel, DSM, Tanzania.
- 11.60 Africa Ministers' Council on Water – Workshop on African Groundwater Commission (AGWC) 24th -25th July 2017 Golden Tulip Dar es Salaam City Centre Hotel, DSM)
- 11.61 National Green Reference Group Meeting 6th July 2017, SAGCOT Centre Ltd, DSM,

Tanzania

- 11.62 Inception Workshop: Consultancy Services for Carrying out Economic Analysis of Water Use of Lower Kihansi Hydropower Plant (LKHP), 29th June 2017, Tanzania Institute of Education, Dar Es Salaam, Tanzania
- 11.63 3rd Ihemi Green Reference Group Meeting, 23rd June 2017, Gentle Hills Hotel, Iringa, Tanzania
- 11.64 Rufiji Basin Environmental Flow Assessment (EFA) Monitoring and Adaptive Management Workshop, 6-7 June 2017, Nashera Hotel, Morogoro, Tanzania
- 11.65 National Task Force Meeting on Great Ruaha River Restoration, 28th April 2017, Mbeya, Tanzania
- 11.66 WWF - CARISMA workshop, 25th April 2017, EDEMA Hotel, Morogoro, Tanzania
- 11.67 UMFULA Project Workshop on Climate Change Projections, 4th April 2017, NCMC, Sokoine University of Agriculture, Morogoro, Tanzania.
- 11.68 Unleashing Agricultural Potential, SAGCOT Annual Forum, 10th March 2017, Kizenga Auditorium, LAPF Building, Kijitonyama. Dar es Salaam, Tanzania.
- 11.69 GroFutures 2nd Annual Workshop, 13th - 16th February 2017, NCMC, Sokoine University of Agriculture, Morogoro, Tanzania
- 11.70 UPGro, AfriWatSan & The Chronicles Consortium Capacity-strengthening & Knowledge Co-production workshop, 10th to 12th February 2017, NCMC, Sokoine University of Agriculture, Morogoro, Tanzania
- 11.71 Workshop on FREL, 20 December 2016, National Carbon Monitoring Centre, Sokoine University of Agriculture, Morogoro, Tanzania.
- 11.72 Partnership for Water-Smart Growth in Tanzania Annual Conference supported by Ministry of Water & Irrigation, Prime Minister's Office & 2030 WRG, 17-19 November 2016, Golden Tulip Hotel, Masaki, Dar es Salaam, Tanzania.
- 11.73 IUCN-SUSTAIN Africa Programme - 1st Meeting of data partners for SAGCOT, 11th November 2016, Protea Hotel, Dar es Salaam, Tanzania.
- 11.74 4th Annual Water Conference (AWAC 2016)/ ATAWAS, 8-9 November, St Gasper College, Dodoma, Tanzania.
- 11.75 UMFULA annual project meeting, 2-5 November 2016, Townhouse, Cape Town South Africa
- 11.76 4th Meeting of the SNAPP/ SAGCOT Working Group, 23-25 August, 2016, Ledger Plaza Bahari Beach Hotel, Dar Es Salaam, Tanzania
- 11.77 Third project annual meeting, Agriculture and water in Africa project, 1 – 5 August 2016, Terminus Hotel, Maputo, Mozambique.
- 11.78 NEMC Workshop on Developing Guidelines For Management of Rivers and River Banks in Tanzania, 28-29 July, 2016, Dept. Agricultural Engineering and Technology, SUA, Morogoro, Tanzania

- 11.79 WLE Regional Review Meeting and the 6th Africa Water Week July 18-22 2016, Dar es Salaam, Tanzania
- 11.80 Workshop on Pesticide use in the Southern Agricultural Growth Corridor of Tanzania (SAGCOT), 28th – 29th June 2016, Protea Hotel Court Yard, Dar es Salaam, Tanzania
- 11.81 7th Africa Agriculture Science Week and FARA General Assembly “Apply Science, Impact Livelihoods”, 13th -16th June 2016, Kigali Conference and Exhibition Village, Rwanda
- 11.82 Joint Vision workshop - Great Ruaha River - 7 & 8 June 2016, Gentle Hills Hotel, Iringa Tanzania
- 11.83 Making Catchment Governance Work for All In Situations of Water Scarcity & Complexity Sustainable Water Access, Use and Management (SWAUM), 5th – 6th May 2016, Julius Nyerere International Convention Centre, Dar es Salaam, Tanzania
- 11.84 Tanzania ILSSI gender and irrigation workshop, April 20-21, 2016, Protea Courtyard Hotel, Dar es Salaam, Tanzania
- 11.85 UMFULA Project Inception Workshop, 6th April 2016, Rufiji Basin Water Board, Iringa Tanzania
- 11.86 GROFUTURES Inception Workshop, 31st March, 2016, Iringa Tanzania
- 11.87 LiFELand Sustainability Development Planning Workshop held on 3rd March 2016, Gentle Hills Hotel, Tanzania.
- 11.88 Uhakika wa Maji: Regional Learning Workshop on Social Accountability for water security 15th – 16th February 2016, Morogoro Hotel, Morogoro, Tanzania
- 11.89 LiFELand Sustainability Development Planning Workshop held on 1st July 2015, LandMark Hotel, Dar es Salaam, Tanzania.
- 11.90 EF setting workshop held on 15th -20th June 2015, Nashera Hotel, Morogoro, Tanzania.
- 11.91 Woody Weeds Project Launching in Kenya, held on 29th May – 5th June at KFRI, Kenya
- 11.92 AWF SUSTAIN Inception Workshop in Morogoro, 29th May, 2015, Morogoro Hotel, Morogoro, Tanzania
- 11.93 SUSTAIN Investment Dialogue: Innovation in Investment in Nature as Water Infrastructure to Support Green and Inclusive Growth in SAGCOT, held on 21st May, 2015, Best Western Palm Hotel, Dar es Salaam, Tanzania.
- 11.94 2nd SAGCOT/SNAP Working Group meeting held on 12-15th May, 2015 in Iringa, Tanzania.
- 11.95 MRV - PLT&PMB and Hands on Training Workshop, held on 13th- 17th April, 2015, Oceanic Bay Hotel & Resort, Bagamoyo, Tanzania.
- 11.96 LiFELand Project Inception & Launching Workshop, held on 10th April 2015, Gentle Hills Hotel, Iringa, Tanzania
- 11.97 Kilombero EFA objective setting workshop, 30th – 31st March 2015, Nashera Hotel, Morogoro, Tanzania.

- 11.98 Mapping and Modeling of Ecosystems Services Using InVEST models, held on 19th – 22nd November 2014, ICIPE, Duguville, Nairobi, Kenya.
- 11.99 Open source Geospatial data processing for REDD+ Applications, 4th -6th November 2014, Regional Centre for Mapping Resources for Development, Nairobi, Kenya
- 11.100 Lake Rukwa EFA recommendation and Stakeholder workshop, 30th October – 1st November, 2014, Mbeya.
- 11.101 WLE Nile-East Africa Focal Region Writeshop, 20th – 25th October, 2014, Ethiopia.
- 11.102 Regional publishing workshop: Editorial and Online Peer-Review Process, held from Tuesday 7th -10th October 2014, Protea Hotel Courtyard, Tanzania
- 11.103 Climate+Water+Adaptation Conference: Bringing Research into Practice held from 24th to 26th September 2014, Kunduchi Beach Hotel, Dar es Salaam.
- 11.104 SNAP/SAGCOT workshop, 15th -18th September 2014, Kunduchi Beach Hotel, Tanzania
- 11.105 Mapping and Modeling of Ecosystems Services Using InVEST models, held on 16th – 18th July 2014, ICE HALL, SUA, Morogoro, Tanzania.
- 11.106 Sustainability and Inclusion Strategy for Growth Corridors in Africa (SUSTAIN-Africa), Kick-off Meeting, held on 9th – 10th April, 2014, Atlantis Hotel, Dar es Salaam, Tanzania.
- 11.107 The Second Annual Natural Capital Project Meeting and Training on InVEST (Integrated Valuation of Environmental Services and Tradeoffs), held on 26th – 28th March 2014, Stanford University, California, U.S.A.
- 11.108 Training workshop on Agricultural Innovation Platform (AIP) held on 17th - 21st February 2014, ICRISAT, Bulawayo, Zimbabwe.
- 11.109 Finland-Tanzania Business Roundtable and B2B Meetings held on 30th January, 2014 at the Hyatt, Kilimanjaro Hotel organized by Finpro and Embassy of Finland Tanzania.
- 11.110 Project Launch and Inception Meeting on Increasing Irrigation Water Productivity in Mozambique, Tanzania and Zimbabwe through on farm monitoring, adaptive management and agriculture innovation platforms, held on 19th - 22nd August 2013, VIP Grand Hotel, Maputo, Mozambique.
- 11.111 CHIESA Project meeting held on 17th - 27th March 2013, Jimma University, Jimma, Ethiopia.
- 11.112 VicRes Regional Project Annual Review meeting held on 5th - 8th March 2013, Grand Global Hotel, Kampala, Uganda.
- 11.113 Stakeholders' Feedback and Consultative Workshop for a CCIAM funded project on Analysis of the impacts of urban land use and climate change on coastal forest ecosystem and management (IULUCC-CFM), held on 28 February 2013, Ardhi University (ARU), Dar es Salaam, Tanzania.
- 11.114 1st Writers Workshop of the CCIAM Programme, held on 28th - 30th January 2013 at Palm Tree Village Resort, Bagamoyo, Tanzania.
- 11.115 VicRes Project Stakeholders' Workshop on Beef Cattle Value Chain, held on 31st October 2012, Victoria Palace Hotel, Mwanza, Tanzania.

- 11.116 Workshop on Integrated Water Resources Management held on 26th - 29th September 2012, Internal Drainage Basin Office-Singida, Tanzania.
- 11.117 LiDAR/GEO-FCT Project Meeting held on 18th – 21st September, 2012, NSC, Norway.
- 11.118 Workshop on Environmental Flows, University of Dar es Salaam, College of Engineering and Technology, 11th -12th July 2012, Dar es Salaam, Tanzania.
- 11.119 Lake Victoria Basin Commission, Workshop on Environmental Flows Assessment for Enhanced Decision Making in the Mara River Basin, held on 23rd - 26th May 2012, Sosa Cottages, Vhiga, Kenya.
- 11.120 Lake Victoria Research Initiative (VicRes) Inception workshop, held on 1-7 February 2012, Zanzibar Oceanic Beach Hotel, Tanzania
- 11.121 The MRV Annual Project Lead Team-meeting (2011) held on 11th Feb. 2012. SUA Training Forest Centre, Arusha, Tanzania
- 11.122 Book publishing workshop on “Small Pumps as Saviors? Improving Small-holder Agrarian Livelihoods in Sub-Saharan Africa”, organized by the International Water Management Institute (IWMI), held on December 13th - 17th, 2011, at the Bellagio Study and Conference Center, Italy.
- 11.123 Stakeholder Workshop, IWRM Plan for the Rufiji Basin Water Office, held on 1st – 2nd December 2011, at the Kilimo Conference, Iringa District Council, Iringa, Tanzania.
- 11.124 IPCC Expert Meeting on Scoping Additional Guidance on Wetlands, 30th March – 1st April 2011, WMO, Geneva, Switzerland.
- 11.125 International Workshop on Methods for Biomass Estimation and Forest Cover Mapping in the Tropics: From Carbon Policy to Technical Training, organised by The Woods Hole Research Center, held on June 21st – 24th, 2011 at Gorilla Hotel, Ruhengeri, Rwanda.
- 11.126 5th E-Learning Workshop for Integrated Watershed Management, 14th to 18th December 2010. Held at the Institute of Marine Sciences (IMS) in Zanzibar.
- 11.127 International Conference on “BIOCOMBUSTIBLES Y DESARROLLO HUMANO” 26th November 2010 to 1st December 2010, held in Madrid, Spain.
- 11.128 ERDAS/LEICA Workshop on Imaging and LIDAR sensors for Rapid Response Mapping, 15th September 2010, held at Movenpick Royal Palm Hotel, Dar es Salaam
- 11.129 Stakeholders’ Workshop on Environmental Flow Assessment (EFA) for the Ihefu Eastern Wetlands, 5th May 2010, held at RBWO Conference Hall – Iringa. Organised by WWF-Ruaha Water Programme.
- 11.130 Workshop on Role of Healthy Ecosystems in Climate Change Adaptation – A Case Study in the Ruaha River Catchment, 19th November 2010, Blue Pearl Hotel, Ubungo, DSM. Organised by WWF and SEI (Stockholm Environmental Institute)
- 11.131 DAAD Alumni Summer School, Training on Integrated Watershed Management –Financial Aspects of Watershed Management, 12th to 25th of September 2010, Kilimanjaro Cranes Hotel, Tanzania
- 11.132 Environmental Flows Review Workshop, August 2nd to 4th 2010, Morogoro Hotel, Morogoro,

Tanzania, Organised by IUCN

- 11.133 Environmental Flows: Development of Implementation Plan for East African Basins, 29th-31st March, 2010, Lake Naivasha Resort, Naivasha, Kenya. Organised by WWF- ESARPO
- 11.134 PANTIL Programme, 3rd Writer's Workshop, 8th to 12th March 2010, Blue Pearl Hotel, Dar es Salaam, Tanzania.
- 11.135 DAAD Alumni Summer School, Training on Integrated Watershed Management –Financial Aspects of Watershed Management, 14th – 26th September 2009, Kilimanjaro Cranes Hotel, Tanzania
- 11.136 3rd Workshop, E-Learning for Master Programme in Integrated Watershed Management 20th - 24th July 2009, Dar es Salaam University, Tanzania
- 11.137 Climate Change: Global Risks, Challenges and Decisions Conference, 10th-12th March, 2009. University of Copenhagen, Copenhagen, Denmark
- 11.138 2nd Workshop, E-Learning for Master Programme in Integrated Watershed Management 24th January to 1st February 2009, White Sands Hotel, Tanzania
- 11.139 The 9th WATERNET/WARFSA/GWP-SA Symposium (in association with the International Commission on Water Resources Systems (ICWRS) of the IAHS) on Water and Sustainable Development for Improved Livelihoods. 29th-31st October 2008, Johannesburg, South Africa.
- 11.140 Workshop on access, use and dissemination of e-resources. 16th -18th September, 2008. SNAL, Sokoine University of Agriculture, Tanzania
- 11.141 E-Learning for Master Programme in Integrated Watershed Management. 14th -18th July 2008. Department for Water Resources Engineering, University of Dar es Salaam, Tanzania.
- 11.142 Regional Research Development Workshop: Sustainable use and management of wetlands in the Lake Victoria Basin, East Africa, 26th-28th March 2008, National University of Rwanda, Butare, Rwanda.
- 11.143 Geospatial Sciences for Sustainable Development in Africa. "Harnessing the flow of geospatial information in addressing the challenges of sustainable development in Africa ". Global Dialogue on Emerging Science and Technology (GDEST) 2008. 17th-19th March, 2008, Protea Hotel, Cape Town, South Africa.
- 11.144 Valuing the Arc Workshop on Biodiversity and Mapping of Ecosystem Services. 4th–6th February, 2008, Oasis Hotel, Morogoro, Tanzania.
- 11.145 Great Ruaha River Environmental Flows Assessment (EFA) Workshop, 28th–30th January 2008. Rufiji Basin Water Office, Iringa, Tanzania.
- 11.146 Seminar on Land, Water and Cross-Border Resource Use. 31st October 2007. Centre of African Studies, University of Edinburgh, Scotland, UK.
- 11.147 International workshop on Population and Habitat Viability Assessment (PHVA) for the Development of Kihansi Spray Toad (KST) recovery plan. 13th–18th May 2007. Paradise Hotel, Bagamoyo, Tanzania.
- 11.148 Integrated Water Resources Management Plans and Conflict Resolution Seminar to District Facilitation Teams (DFTs). 9th–11th May 2007. Rufiji Basin Water Office, Rujewa Office,

Mbarali, Mbeya, Tanzania.

- 11.149 Impact, challenges and Opportunities in agricultural research, ICE, SUA, Morogoro. Workshop organized by PANTIL. 28th March, 2007.
- 11.150 WWF Stakeholder feedback workshop on wetlands and valley bottoms baseline survey for Iringa and Mbeya, Mafinga, Iringa 23rd – 24th February 2007.
- 11.151 RIPARWIN Wrap-up/Final Feedback Workshop – Restoring the Great Ruaha and Meeting Other Water Allocation Challenges. ICE Hall, SUA, Morogoro, 7th-8th February 2006.
- 11.152 Ruaha Basin Decision-Aide (RUBDA) Training Workshop, Land Mark Hotel, Ubungu, Dar Es Salaam-Tanzania, 19th-20th Dec. 2005.
- 11.153 2nd Workshop on Infrastructure and Legislation for River Basin Management, Land Mark Hotel, Ubungu, Dar Es Salaam, Tanzania, 30th Nov 2005.
- 11.154 The 2005 Annual Scientific Conference of Tanzania Society of Agricultural Engineers (TSAE). The Muslim University of Morogoro, Morogoro, Tanzania, 21st -23rd Nov. 2005.
- 11.155 The 6th WATERNET/WARFSA/GWP – SA Symposium – Water for Sustainable Socio-economic Development, Good Health for all and Gender Equity. Ezulwini, Swaziland, 1st - 3rd Nov.2005.
- 11.156 Irrigation Management, Efficiency and Productivity Workshop, Institute of Continuing Education (ICE), SUA, Morogoro-Tanzania. 20th Sept 2005.
- 11.157 Legislation and Infrastructure for River Basin Management Workshop, ICE Hall, SUA, Morogoro-Tanzania. 19th Sept 2005.
- 11.158 Training workshop on Great Ruaha River Basin Decision-Aide (RUBDA), Rufiji Basin Water Office Conference Hall, Iringa-Tanzania. 14th-15th Sept 2005.
- 11.159 Review of Irrigation Research Agenda/Proposal on Irrigation Management, Efficiency and Productivity (IMEP), Njuweni Hotel, Kibaha, Tanzania. 22nd July 2005.
- 11.160 The World Bank Workshop on Environmental and Social Safeguards. ICE Hall, SUA, Morogoro, Tanzania. 10th March 2005.
- 11.161 The East Africa Integrated River Basin Management Conference. ICE Hall, SUA, Morogoro, Tanzania. 7th - 9th March 2005.
- 11.162 The RIPARWIN Seminar. Mbeya Peak Hotel, Mbeya, Tanzania. 12th Feb. 2005.
- 11.163 The SSSEA Conference. NEW SAFARI HOTEL ARUSHA, TANZANIA. 29th Nov.-3rd Dec.2004.
- 11.164 The River Basin Game Workshop. Rufiji Basin Water Office (RBWO) Conference room, Iringa, Tanzania. 4th – 5th Nov. 2004.
- 11.165 National Level Dialogue Workshop on Water, Food, Energy and Environment. Rufiji Basin water Office Conference Hall, Iringa, Tanzania. 10th August 2004.
- 11.166 Workshop on the Completion of the Development of the Framework For Action (FFA) for Water Vision in Tanzania. LandMark Hotel, Dar es Salaam, Tanzania. 2nd – 3rd Sept. 2004.

- 11.167 World Water Week – the 14th Stockholm Water Symposium: Drainage Basin Management – Regional Approaches for Food and Urban Security. Stockholm, Sweden. 14th –21st Aug. 2004.
- 11.168 Irrigation Efficiency and Productivity Training Workshop. Mbeya Peak Hotel, Mbeya-Tanzania. 24th -26th May 2004
- 11.169 Trainer of Facilitators (ToF) Workshop: Dialogue for Food, Water and Environment in the Upper Ruaha River, Tanzania “. ICE Hall, SUA. Tanzania. 19th –21st May 2004.
- 11.170 Wrap-up workshop for the FNPP funded projects on Tanzania Wetlands Management. MAFS, Kilimo II Conference Room, Dar es Salaam, Tanzania. 29th April 2004.
- 11.171 Launching of the Country Water Partnership (CWP) and Development of the Framework For Action (FFA) to Achieve the Water Vision in Tanzania. Land Mark Hotel, Dar es Salaam, Tanzania. 25th-27th Feb.2004.
- 11.172 World Wetlands Day Media Conference. WWF – TPO in Dar es Salaam. Tanzania. 2nd February 2004.
- 11.173 Workshop on Integrated Water Resources Management (IWRM) in the Mkoji Sub-Catchment. Mbeya Peak Hotel, Tanzania. 15th-17th Jan 2004.
- 11.174 Seminar on “Water Matters: Local and Global Perspectives” at the ICE Hall, SUA , Tanzania. 6th January 2004.
- 11.175 The Great Ruaha +10 Seminar. ICE Hall, SUA, Morogoro, Tanzania. 11th-12th Dec. 2003.
- 11.176 Hydro Africa 2003 Conference. AICC, Arusha, Tanzania. 16th -19th Nov. 2003.
- 11.177 Training workshop on Environmental Flows. VETA-Mbeya, Tanzania. 15th-19th Sept. 2003.
- 11.178 Workshop on “Sustainable development of Inland Wetlands in Southern Africa: a livelihoods and ecosystem approach” (FAO, IWMI, IUCN-ROSA). University of Dar es Salaam, B.Com building, Tanzania. 17th June 2003.
- 11.179 Training Workshop on Scientific Report Writing. SUA, Morogoro, Tanzania. 12th-16th May 2003.
- 11.180 PWAIS Inception Workshop. Mbeya Peak Hotel, Mbeya, Tanzania. 7th - 9th April 2003.
- 11.181 Training on Geographical Information System (GIS) and Remote Sensing (RS). SUA, Morogoro, Tanzania. 20th –24th Jan 2003.
- 11.182 The 3rd WATERNET/WARFSA Annual Symposium – Integrated Water Supply and Water Demand for Sustainable Use of Water Resources. White Sands Hotel, Dar es Salaam, Tanzania. 30th-31st Oct 2002.
- 11.183 RIPARWIN Steering Workshop. ICE Hall, SUA, Morogoro, Tanzania. 20th August 2002.

12.0 PAPERS AND OTHER PUBLICATIONS

12.1 Published Journal Papers

- 12.1.1 Margaret N. Naiposha, Emmanuel F. Nzunda and **Japhet J. Kashaigili** (2021) Participatory Land Use Planning Policy Implementation in Ulanga District, Tanzania: Assessment of Zones Sufficiency Asian Journal of Environment & Ecology 15(1): 49-62. DOI: 10.9734/AJEE/2021/v15i130221
- 12.1.2 Zarate, E, Hogleya, D., MacDonald, A.M., Swift, R.T., Chambers, J., **Kashaigili, J.J.**, Mutayoba, E., Taylor, R.G. and Cuthbert, M.O. (2021) The role of superficial geology in controlling groundwater recharge in the weathered crystalline basement of semi-arid Tanzania. *Journal of Hydrology - Regional Studies*, 36(2021) 100833 <https://doi.org/10.1016/j.ejrh.2021.100833>
- 12.1.3 Kolusu, S.R., Siderius, C., Todd, M.C., Bhawe, A., Conway, D., James, R., Washington, R., Geressu, R., Harou, J.J., and **Kashaigili, J.J.** (2021) Sensitivity of projected climate impacts to climate model weighting: multi-sector analysis in eastern Africa, *Climatic Change* 164(36):1-20. <https://doi.org/10.1007/s10584-021-02991-8>
- 12.1.4 Sirima, A., **Kashaigili, J.J.** and Kamau, F. (2021) The effect of agricultural intensification on ecosystem services around Ihemi cluster, Tanzania Journal of Forestry and Nature Conservation, 90(1):30-40.
- 12.1.5 Olden, J.D., Messenger, M.L., Tharme, R.E., **Kashaigili, J.J.**, Munkyalala, D., Zielinski, L. and Warner, A. (2021) Hydrologic classification of Tanzanian rivers to support national water resource policy, *Ecohydrology*, <https://doi.org/10.1002/eco.2282>.
- 12.1.6 Geressu, R., Siderius, C., Harou, J.J., **Kashaigili, J.J.**, Pettinotti, L., and Conway, D. (2020), Assessing river basin development given water-energy-food-environment interdependencies. *Earth's Future*, 7: 1-20. e2019EF001464. <https://doi.org/10.1029/2019EF001464>.
- 12.1.7 Moirana E.L. and **Kashaigili, J.J.** (2020), Use of Weather and Climate Information in Decisions on Conservation of Water Resources in Kilombero River Catchment, Tanzania. *Journal of Environment and Earth Science*, 10 (4):37-45. Doi:10.7176/JEES/10-4-06
- 12.1.8 Chilagane, N.A., **Kashaigili, J.J.**, and Mutayoba, E. (2020), Historical and Future Spatial and Temporal Changes in Land Use and Land Cover in the Little Ruaha River Catchment, Tanzania. *Journal of Geoscience and Environment Protection*, 8:76-96. <https://doi.org/10.4236/gep.2020.82006>.
- 12.1.9 Mark O. Cuthbert, Richard G. Taylor, Guillaume Favreau, Martin C. Todd, Mohammad Shamsudduha, Karen G. Villholth, Alan M. MacDonald, Bridget R. Scanlon, D. O. Valerie Kotchoni, Jean-Michel Vouillamoz, Fabrice M.A. Lawson, Philippe Armand Adjomayi, **Japhet Kashaigili**, David Seddon, James P. R. Sorensen, Girma Yimer Ebrahim, Michael Owor, Philip M. Nyenje, Yahaya Nazoumou, Ibrahim Goni, Boukari Issoufou Ousmane, Tenant Sibanda, Matthew J. Ascott, David M. J. Macdonald, William Agyekum, Youssouf Koussoubé, Heike Wanke, Hyungjun Kim, Yoshihide Wada, Min-Hui Lo, Taikan Oki and Neno Kukuric (2019). Observed controls on resilience of groundwater to climate variability in sub-Saharan Africa, **Nature**, 572: 230–234. Doi: 10.1038/s41586-019-1441-7.
- 12.1.10 Kolusu, S. R., Shamsudduha, M., Todd, M. C., Taylor, R. G., Seddon, D., **Kashaigili, J.J.**, Ebrahim, G. Y., Cuthbert, M. O., Sorensen, J. P. R., Villholth, K. G., MacDonald, A. M., and MacLeod, D. A. (2019). The El Niño event of 2015–16: Climate anomalies and their impact on groundwater resources in East and Southern Africa, *Hydrol. Earth Syst. Sci.*, 23:1751-1762. <https://doi.org/10.5194/hess-2018-516>.

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- 12.1.26 Makarius V. Mdemu, Nuru Mziray, Henning Bjornlund and **Japhet J. Kashaigili** (2016): Barriers to and opportunities for improving productivity and profitability of the Kiwere and Magozi irrigation schemes in Tanzania, *International Journal of Water Resources*, 1-15. <http://www.tandfonline.com/doi/full/10.1080/07900627.2016.1188267>.
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- 12.1.28 Makero, J.S. and **Kashaigili, J.J.** (2016). Analysis of Land-Cover Changes and Anthropogenic Activities in Itigi Thicket, Tanzania. *Advances in Remote Sensing*, 5, 269-283. <http://dx.doi.org/10.4236/ars.2016.54021>
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- 12.1.30 **Kashaigili, J. J.**, Zziwa E, Ernest, S., Laswai, E, Segatagara, B.M., Mpairwe, D., Kadigi, R.M.J., Ebong, C., Mugasi, S.K., Laswai, G.H., Mupenzi, M., Ngowi, P.J. and Kadigi, I.L. (2015). Implications of Land Use Land Cover Change and Climate Variability on Future Prospects of Beef Cattle Production in the Lake Victoria Basin, *American Journal of Climate Change*, 4: 461-473. <http://dx.doi.org/10.4236/ajcc.2015.45037>
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- 12.1.32 Chitata, T., Mugabe, F.T. and **Kashaigili, J.J.** (2014). Estimation of Small Reservoir Sedimentation in Semi-Arid Southern Zimbabwe. *Journal of Water Resource and Protection*, 6, 1017-1028. <http://dx.doi.org/10.4236/jwarp.2014.611096>

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12.2 Book Chapters

- 12.2.1 Siderius, C., I Geressu, R., Todd, M.C., Kolusu, S.R., Harou, J.J., **Kashaigili J.J.** and Conway, D. (2021) High Stakes Decisions Under Uncertainty: Dams, Development and Climate Change in the Rufiji River Basin. In Conway, D. and Vincent, K. (eds) *Climate Risk in Africa: Adaptation and Resilience*. Palgrave Macmillan, Springer Nature Switzerland AG. pp.93-114. <https://doi.org/10.1007/978-3-030-61160-6>, ISBN 978-3-030-61159-0; ISBN 978-3-030-61160-6 (eBook).
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- 12.2.3 Ruth E.P., **Kashaigili J.J.**, Majule A.E. (2020) Availability, Access and Use of Weather and Climate Information by Smallholder Farmers in the Kilombero River Catchment, Tanzania. In: Singh B., Safalaoh A., Amuri N., Eik L., Sitaula B., Lal R. (eds) *Climate Impacts on Agricultural and Natural Resource Sustainability in Africa*. Springer, Cham. pp 489-506. DOI https://doi.org/10.1007/978-3-030-37537-9_28, Print ISBN 978-3-030-37536-2, Online ISBN 978-3-030-37537-9.
- 12.2.4 **Japhet J. Kashaigili** (2012). Tanzania. In: P. Pavelic, M. Giordano, B. Keraita, T. Rao, and V. Ramesh (Eds.), *Groundwater availability and use in Sub-Saharan Africa: A review of 15 countries*, Ch. 13, pp. 195-216. Colombo, Sri Lanka: International Water Management Institute (IWMI), doi: 10.5337/2012.213. ISBN No 978-92-9090-758-9.

12.3 Proceedings, Papers Presented at Conferences and Workshops

- 12.3.1 **Japhet Kashaigili**, Richard Taylor, Laurence Thomas-Dalton, Devotha Mosha, Andrew Tarimo, Mohammad Shamsudduha, Karen Villholth, Imogen Bellwood-Howard, and John Thompson (2021) Recent changes in river discharge in a tropical semi-arid lowland: climate versus people in the Upper Great Ruaha River Sub-catchment. Presented at the 2nd Sokoine University of Agriculture Scientific Conference on *Research and Technological Innovations Towards Transformation of Lower Middle Income Countries*, 25th-26th May 2021, ICE Hall, Edward Moringe Campus, Sokoine University of Agriculture, Morogoro, Tanzania.
- 12.3.2 **Kashaigili, J.J.** (2020) Water for Dodoma – risks and opportunities for the city water supplies of Tanzania’s growing capital city. Paper presented at the 20th African Water Association International Congress and Exhibition (AfWA 2020) - *Breaking New Grounds to Accelerate Access to Clean Water and Sanitation for All in Africa*, 24-27 February 2020, Serena Hotel, Kampala Uganda.
- 12.3.3 **Kashaigili, J.J.** (2020) Groundwater in Practice: Reflection on ideas from Nairobi and ideas for short-term Action Groups. Paper presented at the AMCOW Pan-African Groundwater Program (APAGroP) Working Group meeting, Saturday 22nd February 2020, Fairway Hotel, Kampala, Uganda
- 12.3.4 Gama, D.G., **Kashaigili, J.J.** and Kessy, J.F. (2019) Cost-Benefit Analysis of Groundwater Use for irrigation by Smallholder Farmers in the Usangu Plains, Tanzania. *In* Proceedings of Scientific Conference on Transforming Agriculture and Natural Resources for Sustainable Development to attain Industrial Economy in Tanzania, 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania.
- 12.3.5 **Kashaigili, J.J.** (2019) Guidelines on EFlows for the Western Indian Ocean region, presented at the Project Steering Committee (PSC) Meetings for the WIOSAP and SAPPHERE Projects, 25th -27th June 2019 in Durban, South Africa.
- 12.3.6 **Kashaigili, J.J.** (2019) Sustainable Water Resources Management in Tanzania. A Key note paper presented at the SUA Scientific Conference on Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania, 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania.
- 12.3.7 **Kashaigili, J.J.** (2019) Adopting EFlows as a tool in Integrated Water Resource Management (IWRM). Paper presented at the Western Indian Ocean Regional Science to Policy Workshop 27th - 29th May 2019, Port Louis, Mauritius.
- 12.3.8 Lyamuya, I., Nobert, J. and **Kashaigili, J.J.** (2019) Evaluating Irrigation Water Requirements using different Scenarios of Future Climate Change in Mbarali River Catchment. A paper presented at the SUA Scientific Conference in Agriculture and Agribusiness "Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania", 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania
- 12.3.9 Kambulaje, D.R. and **Kashaigili, J.J.** (2019) Influence of Wood Resources Revenue Collection on Forest Degradation in Geita Forest Reserve Tanzania. A paper presented at the SUA Scientific Conference in Agriculture and Agribusiness "Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania", 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania
- 12.3.10 Moirana, E.L. and **Kashaigili, J.J.** (2019) Use of Weather and Climate Information in Decisions on Conservation of Water Resources in Kilombero River Catchment, Tanzania. A paper presented at the SUA Scientific Conference in Agriculture and Agribusiness

"Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania", 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania

- 12.3.11 **Kashaigili, J.J.** and Kamau F.K. (2019) Planning for Sustainable Natural Resource Management: Experiences from Ithemi Agricultural Development Cluster, SAGCOT, Tanzania. A paper presented at the SUA Scientific Conference in Agriculture and Agribusiness "Transforming Agriculture and Natural Resources for Sustainable Development to Attain Industrial Economy in Tanzania", 10th - 11th April 2019, Sokoine University of Agriculture, Morogoro, Tanzania
- 12.3.12 **Kashaigili, J.J.** (2018). Smallholder Irrigation in Tanzania: Current practices, Constraints and Opportunities. Paper presented at the International Conference on Sustainable Agricultural and Natural Resource Management under Changing Climate in Sub-Saharan Africa, 16-18th October 2018, Bingu International Conference Centre, Lilongwe, Malawi.
- 12.3.13 David Seddon, Richard Taylor, **Japhet Kashaigili**, Martin Todd and Mark Cuthbert (2016). Episodic groundwater recharge in a semi-arid environment: assessing the impact of the 2015/16 El Niño in central Tanzania, IAH Conference, Italy
- 12.3.14 **Kashaigili, J.J.**, Levira, P., Liwenga, E. and Mdemu, M.V. (2013) Perceptions and coping strategies of Tanzanian coastal forest dependent communities to Climate variability and Change. A paper presented at the 1st Writers Workshop of the CCIAM Programme, held on 28th - 30th January 2013 at Palm Tree Village Resort, Bagamoyo, Tanzania.
- 12.3.15 Mdemu, M., **Kashaigili, J.J.**, Lupala, J., Levira, P., Liwenga, E., Nduganda, A. and Mwakapuja, F. (2012). Dynamics of Land use and Land cover changes in the Pugu and Kazimzumbwi Forest Reserves. *In proceeding of the first Climate Change Impacts, Mitigation and Adaptation Programme Scientific Conference, Blue Pearl Hotel, Dar es Salaam, Tanzania, 2-3 January 2012.* pp 54-77
- 12.3.16 **Kashaigili, J.J.**, Levira, P., Liwenga, E. and Mdemu, M.V. (2013) Perceptions and coping strategies of Tanzanian coastal forest dependent communities to Climate variability and Change. A paper presented at the 1st Writers Workshop of the CCIAM Programme, held on 28th - 30th January 2013 at Palm Tree Village Resort, Bagamoyo, Tanzania.
- 12.3.17 Majaliwa A.M. and **Kashaigili, J.J** (2009). Hydrological Impacts of Land-Use and Land-Cover Changes on Flow Regimes of the Malagarasi River in Tanzania: *In proceeding of the Fourth Annual PANTIL Scientific Conference on Research Initiatives for Improvement of Livelihoods: Contribution of SUA and her Partners*, held in Morogoro, 19-21 October, 2009. pp 214-224.
- 12.3.18 **Kashaigili, J.J.** and Léville, H. (2009). The adoption and impact of concrete Swiss Pedal Pump in Tanzania. *In proceeding of the Fourth Annual PANTIL Scientific Conference on Research Initiatives for Improvement of Livelihoods: Contribution of SUA and her Partners*, held in **Morogoro**, 19-21 October, 2009. pp 201-213.
- 12.3.19 **Kashaigili J.J.**, Rajabu, K and Masolwa, P. 2009. Freshwater management and climate change adaptation -experiences from the Great Ruaha River catchment in Tanzania. A paper presented at a Climate Change: Global Risks, Challenges and Decisions Conference, 10th-12th March, 2009. University of Copenhagen, Copenhagen, Denmark
- 12.3.20 **Kashaigili, J.J.** and Siwa, H. (2008). Information and Communication Technology for Sustainable Forest Management in Tanzania: Challenges and Opportunities. A paper presented during a Global Dialogue on Emerging Science and Technology (GDEST) 2008

conference on Geospatial Sciences for Sustainable Development in Africa. *"Harnessing the flow of geospatial information in addressing the challenges of sustainable development in Africa"*. 17th - 19th March, 2008. Cape Town, South Africa.

- 12.3.21 **Kashaigili, J.J.**, (2007). Effects of land use and land cover changes on flow regime of the Usangu wetland and the Great Ruaha River in Tanzania. A paper presented to Edinburgh University, Scotland, UK.
- 12.3.22 Usanzineza, D., Nhapi, I., Gashagaza, J.B. and **Kashaigili, J.J.** (2007). Heavy metal pollution and nutrient levels in Lake Muhazi. A paper presented during the 7th WATERNET/WARFSA/GWP-SA Conference held at LILONGWE, MALAWI, 1-3 November 2007.
- 12.3.23 **Kashaigili, J.J.**, McCartney, M. and Mahoo, H. F. (2007). Estimation of environmental flows in the Great Ruaha river catchment, Tanzania: Use of the desktop reserve model. A paper presented during the 7th WATERNET/WARFSA/GWP-SA Conference held at LILONGWE, MALAWI, 1-3 November 2006.
- 12.3.24 **Kashaigili, J.J.**, McCartney, M. and Mahoo, H.F. (2006). Assessment of Water Management in the Usangu wetlands. In Proceeding of conference on Ecosystem changes and Implications on Livelihoods of Rural Communities in Africa, 18th – 20th October 2006, Kunduchi Beach Hotel, Dar es Salaam, Tanzania
- 12.3.25 **Kashaigili, J.J.**, Mbilinyi, B.P., McCartney, M. and Mwanuzi, F.L. (2004). Dynamics of Usangu Plains Wetlands: use of Remote Sensing and GIS as management decision tools. In proceeding of conference on IWRM and the Millennium Development Goals: Managing Water for Piece and Prosperity, 5th WATERNET/WARFSA/GWP SA, 2nd - 4th November 2004, Windhoek, Namibia.
- 12.3.26 **Kashaigili, J.J.** and Mbilinyi, B.P. (2004). Effects and Consequences of Human Developmental Activities on Usangu Wetlands Ecosystem: the use of Remote Sensing and GIS. Paper presented at the SSSEA Conference, 29th Nov. – 3rd Dec. 2004, Arusha, Tanzania.
- 12.3.27 **Kashaigili, J.J.**, Mahoo, H. F., McCartney, M., Lankford, B.A., Mbilinyi, B.P. and Mwanuzi, F.L. (2005). Integrated hydrological modeling of wetlands for environmental management: The case of the Usangu wetlands in the Great Ruaha Catchment. A paper presented during the East Africa River Basin Management Conference, held at ICE, Sokoine University of Agriculture, Morogoro, Tanzania - 7th – 9th March 2005.
- 12.3.28 **Kashaigili, J.J.** (2005). Restoring environmental flows for the Great Ruaha River: Issues and Options. A paper presented during the World Bank Workshop on Environmental and Social Safeguards, held at ICE, Sokoine University of Agriculture, Morogoro, Tanzania - 10th March 2005.
- 12.3.29 **Kashaigili, J.J.** and Mahoo, H.F. (2005). Towards valuation of wetlands in the Usangu Plains for environmental management: Livelihoods issues and perceptions. In Proceeding of conference on Water for Sustainable Socio-Economic Development, Good Health for All and Gender Equity, 1st – 3rd November 2005, Ezulwini, Swaziland.
- 12.3.30 **Kashaigili, J.J.**, Mbilinyi, B.P. and Tumbo, S.D. (2005). The Influence of Land use/ cover changes on hydrological regime of Great Ruaha River downstream of Usangu Plains wetlands in Rufiji Basin, Tanzania. Paper presented at the Tanzania Society of Agricultural

Engineers (TSAE), the 2005 Annual Scientific Conference, 21st -23rd November 2005, The Muslim University of Morogoro, Morogoro, Tanzania.

- 12.3.31 Yawson, D.K., **Kashaigili, J.J.**, Mtalo, F.W. and Kachroo, R.K. (2003). Modelling the Mtera-Kidatu reservoir system to improve integrated water resources management. In: Hydro Africa 2003, CD Proceedings, 17th-19th November, Arusha, Tanzania, 16p.
- 12.3.32 Yawson, D.K., Kachroo, R.K. and **Kashaigili J.J.**, (2003). Failure of the Mtera – Kidatu Reservoir System in the Early 1990s. Paper presented at the Ruaha +10 Seminar (1993-2003: Ten Years of the Drying up of the Great Ruaha River), 11-12 Dec. 2003. ICE, SUA, Morogoro, Tanzania.
- 12.3.33 Mdemu M. V., Lankford B., Kadigi R.M.J., Cour J.G. and **Kashaigili J.J.** (2003). Water Productivity Indicators in Great Ruaha River Basin: Analysis and Implications for Decision-Making and Allocating Water. Paper presented at the Ruaha +10 Seminar (1993-2003: Ten Years of the Drying up of the Great Ruaha River), 11-12 Dec. 2003. ICE, SUA, Morogoro, Tanzania.

12.4 Compendium

- 12.4.1 **Kashaigili, J.J.** (2012). Geographical Information Systems and Remote Sensing **Compendium**. College of Forestry, Wildlife and Tourism. Sokoine University of Agriculture

12.5 Manuals

- 12.5.1 **J.J. Kashaigili**, Mdemu M., Burra, M., P. Levira, and Lupala, J. (2012) GPS as a tool for forest management and land use planning: A hand-held GPS manual for community level use. *Produced under Climate Change Impacts, Adaptation and Mitigation (CCIAM) Programme in Tanzania*

12.6 Policy Briefs and Other publications

- 12.6.1 Conway, D., Geressu, R., Harou, J., **Kashaigili, J.**, Pettinotti, L. and Siderius, C. (2019) Designing a process for assessing climate resilience in Tanzania's Rufiji River basin, FCFA Brief, Cape Town: CDKN. Accessible: <https://futureclimateafrica.org/resource/brief-designing-a-process-for-assessing-climate-resilience-in-tanzania-s-rufiji-river-basin/>
- 12.6.2 Conway D., Mkwambisi, D. and **Kashaigili, J.J.** (2019), The current and future climate of central and southern Africa: What we have learnt and what it means for decision-making in Malawi and Tanzania.
- 12.6.3 Zahabu, E., Eid, T., Kajembe, G.C., Mbwapbo, L., Mongo, C., Sangeda, A.Z., **Malimbwi, R.E.**, Katani, J.Z., **Kashaigili, J.J.** and Luoga, E.J. (2009). Forest tenure systems in Tanzania: an overview of policy changes in relation to forest management. INA fagrapport 14, ISSN 1891-2281. 24p.

12.7 Research Report and other unpublished materials

- 12.7.1 **Kashaigili J.J.**, Kadigi R.M.J., Sikira A., Sirima A., Placid J., Mbungu W., Mbwapbo E. & Minde, A. (2016). Laying the Foundations for Effective Landscape-level Planning for

Sustainable Development in the SAGCOT Corridor: Ihemi Agricultural Development Cluster (LiFELand). Baseline Report.

- 12.7.2 **Kashaigili, J.J.** (2015). Wami Estuary Study – estimating freshwater inflows required to maintain the ecosystems: Hydrology component. iWASH/WADA Programme Sep. 2015.
- 12.7.3 **Kashaigili, J.J.** (2015). Environmental Flow Assessment of the Kilombero Catchment: Hydrology Component, CDM. May 2015
- 12.7.4 **Kashaigili, J.J.** (2015). Rapid Environmental Flow Assessment in Lake Rukwa and Rufiji Basins' Rivers. Rufiji & Lake Rukwa Basins IWRMDP, WREM International Inc.
- 12.7.5 **Kashaigili, J.J.,** M.S. Shalli, M.M. Mangora and C.Corbijn, (2015). Importance and Potential of Wetland Resources of Torit and Lopa/Lafon Counties, Eastern Equatoria State, South Sudan. Report prepared for NIRAS through ZOA South Sudan. ix + 82 pp.
- 12.7.6 **Kashaigili, J.J.,** Mwamakimullah, R., and Katani, J.Z. (2012) Integrating Landscape Conservation Plans into District Development Plans in southern Tanzanian Coastal Forests. Final Report submitted to WWF-TCO.
- 12.7.7 **Kashaigili, J.J.,** Nzunda, E., Mwamakimullah, R., Sirima, A. and Shirima, D. (2012) Spatial Planning Baseline Focusing on the Coastal Forests of Tanzania Mainland for the Coastal Forest Project. Final Report submitted to WWF-TCO.
- 12.7.8 **Kashaigili, J.J.** (2010). Assessment of Groundwater Availability and its current and potential use and impacts in Tanzania (Project Ref.4500010162). Report submitted to International Water Management Institute (IWMI).
- 12.7.9 **Kashaigili, J.J.,** Mahoo, H.F., Mbilinyi, B. and Kahimba, F.C. (2010). Assessment of the situation in the community in relation with the water resources utilization (Demand and Problems) in 22 villages of Same District, Tanzania. Report submitted to Ingenieria Sin Fronteras (ISF).
- 12.7.10 **Kashaigili, J.J.** and Nzunda, E.F. (2010). Impact of bio-fuels on human development: a case study of Bagamoyo and Kisarawe Districts in Tanzania. Submitted to Ingenieria Sin Fronteras (ISF), Madrid, Spain.
- 12.7.11 **Kashaigili, J.J** (2009). Study on the Impacts of Fish Farming on Water Resources Management in Mkoji Sub-Catchment of the Great Ruaha River Catchment in Mbeya Region. Report to the WWF-TPO. 89p.
- 12.7.12 **Kashaigili, J.J.** (2008). Freshwater conservation and climate change adaptation case study for people in the Great Ruaha River catchment area – Iringa and Mbeya Regions. Report to the WWF-TPO. 27p.
- 12.7.13 **Kashaigili, J.J.** (2007). Survey on Adoption and Technical Performance Evaluation of the Swiss Concrete Pedal Pump (CPP). Report to the Food and Agriculture Organization of the United Nations (FAO). 89p.
- 12.7.14 **Kashaigili, J.J.,** McCartney, M.P., Mahoo, H.F., Lankford, B.A., Mbilinyi, B.P., Yawson, D.K. and Tumbo, S.D. (2006). Use of a hydrological model for environmental management of the Usangu Wetlands, Tanzania. Research Report 104, Colombo, Sri Lanka: International Water Management Institute.

- 12.7.15 Cour, J., Kadigi, R.M.J., **Kashaigili, J.J.**, Rajabu, K., and Lankford, B.A. (2006). Water Productivity Table. Methodology and Results. RIPARWIN Report. RIPARWIN. Soil Water Management Research Group, Sokoine University of Agriculture.
- 12.7.16 **Kashaigili, J.J.** (2005). Restoring the wetlands and flows of the Great Ruaha River by 2010: what needs to be done? RIPARWIN POLICY BRIEF No 1 for the SWMRG of Sokoine University of Agriculture, Morogoro.
- 12.7.17 **Kashaigili, J.J.**, Kadigi, R.M.J and Lankford B.A. (2004). Rescuing Usangu Wetlands from degradation and depletion: what should be done? Prepared for the World Wetlands Day for inclusion in WWF news supplement on 2nd February 2004.
- 12.7.18 **Kashaigili, J.J.** (2003). Conservation and Livelihoods: A Lesson Learnt From The Gazetted Usangu Game Reserve in the Usangu Plains, Tanzania. Presented at the course on People Poverty and Natural resources management, University of Western Cape, RSA.
- 12.7.19 **Kashaigili, J.J.** (2003). Current utilization and benefits gained from wetlands in the Usangu Plains. RIPARWIN Report HPRWET3.

13.0 SPECIAL ASSIGNMENTS

- 13.1 **Course Coordinator** - UPGro, AfriWatSan & The Chronicles Consortium Capacity-strengthening & Knowledge Co-production workshop held on 10th to 12th February 2017, NCMC, Sokoine University of Agriculture, Morogoro, Tanzania
- 13.2 **Course Coordinator** - Training on Airborne Laser Scanned (ALS) and Synthetic-Aperture Radar (SAR) Applications in Forest Inventories and Biomass Estimation, held on 11th to 22nd March 2013, GIS Laboratory, Sokoine University of Agriculture, Morogoro, Tanzania
- 13.3 **Course Coordinator** - Training on GIS and Remote Sensing Applications with Integrated LiDAR Data and Ground Based Inventories for Forest Biomass Mapping. A short course training conducted between SUA and ARBONAUT of Finland, held on 1st -14th November 2011 at ICE Hall, SUA, Morogoro, Tanzania
- 13.4 **Guest Lecturer, The National University of Rwanda.** Instruction in GIS, Remote Sensing and Water Resources Modelling (Module WREM604), and guide MSc students in preparing research proposals. Programme - Masters Degree Programme in Water Resources and Environmental Management (WREM). 2008, 2009, 2010.
- 13.5 **Guest Lecturer, The National University of Rwanda.** Instruction in Irrigation and Drainage, Integrated Water Resources Management, guide MSc students in preparing research proposals and supervision. Programme - Masters Degree Programme in Water Resources and Environmental Management, January-February 2007.
- 13.6 **Resource Person**, Integrated Water Resources Management Plans and Conflict Resolution Seminar to District Facilitation Teams (DFTs) held at Rufiji Basin Water Office, Rujewa Office, Mbeya, 9-12, May 2007.
- 13.7 **Resource person** - Training on Environmental Flows Assessment for Enhanced Decision Making in the Mara River Basin, held on 23rd - 26th May 2012, Sosa Cottages, Vhiga, Kenya
- 13.8 **Resource person** - Training on Economic Evaluation of Ecosystem Services, held on 18th - 20th April 2012, Lutheran Uhuru Hostel, Moshi, Tanzania
- 13.9 **Resource person**, Environmental flow assessment training, Rufiji Basin Water Office, Iringa. 27th -30th January 2008.
- 13.10 **External Examiner**, Master Degree Programme in Integrated Environmental Management

(MIEM), University of Dar es Salaam

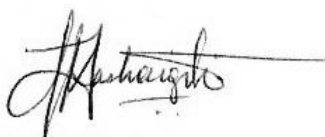
- 13.11 **Reviewer**, 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands (Wetlands Supplement); Journal of Water and Environment; Science Direct, Elsevier Journal of Physics and Chemistry of the Earth, Journal of Agricultural Water Management, Polish Journal of Environmental Studies, Journal of Agricultural Education and Extension, Journal of Forestry and Nature Conservation, Advances in Remote Sensing, Journal of Remote sensing, Journal of GIS, American Journal of Climate Change,
- 13.12 **Resource person**, Environmental flow assessment training, Rufiji Basin Water Office, Iringa. 27th -30th January 2008.
- 13.13 **External Examiner**, School of Environmental Science and Technology and School of Geospatial Sciences and Technology, Ardhi University (ARU).

14.0 LANGUAGES

Fluently read, write and speak English and Kiswahili.

15.0 Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and experience.



Professor Japhet Joel Kashaigili

Date: 30/04/2021