

CONFERENCE THEME:

CLIMATE CHANGE AND FUTURES IN
AFRICA

CONFERENCE SERIES REPORT 2023

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ABBREVIATION AND ACRONYMS

DRM	Disaster and Risk Management
SADC	Southern Africa Development Community
HSRC	Human Sciences Research Council
WUSU	Walter Sisulu University;
UFS	University of Free State

MSU	Midlands State University
GZU	Great Zimbabwe University
DUT	Durban University of Technology
UNISA	University of South Africa
UKZN	University of KwaZulu-Natal
EMU	Eduardo Mondlane University
WFP	World Food Programme
UNDP	United Nations Development Programme
GNDR	Global Network of Civil Society for Disaster Reduction
IHE	Delft Institute for Water Education,
INR	Netherlands; Institute of Natural Resources
NDMC	National Disaster Management Centre
INGD	Instituto Nacional de Gestão e Redução do Risco de Desastres

INTRODUCTION

The HSRC is working with partners to build a body of work on actions to be taken, or required, to avoid disasters. This includes initiatives such as conferences on Disaster and Risk Management (DRM) now carried out in African countries. The first conference, Investing in Disaster Management for Sustainable Development, was held in Victoria Falls, Zimbabwe in October 2022 and attracted more 120 participants from all over the world. Since then, and with the input from the HSRC CEO Prof Sarah Mosoetsa, an overarching theme has been coined and all DRM conferences will be under the umbrella theme Climate Change and Futures in Africa Conference Series. The second DRM conference under this theme was Towards Local Solutions to Early Warning and Disaster Risk Reduction in the Southern Africa Development Community (SADC) and Beyond, held from 8-10 November 2023 in Maputo, Mozambique.

The disaster risk management (DRM) conferences include case studies, papers, interviews, articles, presentations, posters and a repository of news, initiatives, and information about activities being undertaken by people around

the world to stop disasters from happening. The DRM is now held biannually. As social scientists at the HSRC, we are aware that the African continent continues to face a wide array of hazards and threats that can lead to disasters. Unfortunately, many of these hazards become disasters with lives lost, livelihoods and properties destroyed, and great harm done to nature. We can do something about this, as highlighted by the contributions made at the conference *Towards Local Solutions to Early Warning and Disaster Risk Reduction in the Southern Africa Development Community (SADC) and Beyond*.

Stakeholders driving change

Universities participating at the DRM conference included the University of Fort Hare; Walter Sisulu University; University of Free State (UFS); Midlands State University (MSU); Great Zimbabwe University (GZU); Durban University of Technology (DUT); University of South Africa (UNISA); University of KwaZulu-Natal (UKZN), and Eduardo Mondlane University (EMU). Institutions and organisations included the World Food Programme, UNDP, Global Network of Civil Society for Disaster Reduction (GNDR), IHE Delft Institute for Water Education, Netherlands; Institute of Natural Resources (INR); National Disaster Management Centre (NDMC), and Instituto Nacional de Gestão e Redução do Risco de Desastres (INGD), South Africa Weathers Services (SAWs). Presentations included case studies, research papers, and initiatives geared towards mitigating risks posed by climate-induced hazards such as cyclones, droughts and floods. This played a pivotal role in highlighting critical challenges faced by policymakers and societies across the SADC region, providing valuable insights into preventive measures and response mechanisms.

The contributions, coupled with robust discussions and keynote addresses, steered the conference towards fostering collaboration, knowledge exchange, and the formulation of strategic plans to combat climate-induced disasters effectively. The issues that emerged are key challenges facing policymakers and societies in the SADC region and African continent. They give pointers on how countries can best be supported to avoid disasters and how to respond quickly should they occur. Other presenters shared findings from recent projects showing important new perspectives on what change needs to happen, and how that can occur.

The cost of climate inaction

Another interesting paper dealt with the costs of climate inaction for the SADC, providing estimates of loss and damage in this region for the next 20 years. These were obtained after analyzing the impact of extreme weather over the two decades. The paper looked at how much of this could be attributed to climate change and looked forward to what could feasibly happen in the next 20 years. The panel discussion provided key aspects of avoiding disasters. For example, panelists outlined how to design and construct buildings that can withstand high winds and large discharges of water, and how to work with nature to reduce our vulnerability to natural hazards.

Keynote speaker biography

Within the overall context of global sustainable development, Prof. Hilary I. Inyang has had a diversified career as an educator, administrator, researcher, corporate leader and field expeditionist during the past 30 years. He has completed his role as US Ambassador's Distinguished Scholar to Ethiopia with a base at Bahir Dar University (after initially serving at the University of Gondar) in Ethiopia. He currently serves as the Founding Chairman of the Global Institute for Sustainable Development, Advanced Analyses and Design (GISDAAD) that is headquartered in Charlotte, Concord, North Carolina, USA as well as a Visiting Professor of Geoenvironmental Engineering at the Indian Institute of Technology-Bombay (IIT-B), Mumbai, India, following a recent role as a Visiting International Research Fellow at South Africa's Human Sciences Research Council (HSRC). He is a member of the Education Caucus of the United Nations Commission on Sustainable Development and served for two terms (1997-2001) as Chair of the Science Advisory Board (Engineering Committee) of USEPA in Washington DC, USA. He is a former Duke Energy Distinguished Professor and Director of the Global Institute of Energy and Environmental Systems of the University of North Carolina, Charlotte, USA, former DuPont Professor of Environmental Engineering and Science, and Director of CEEST, University of Massachusetts, Lowell, USA, former President of the African University of Science and Technology, Abuja, Nigeria, and former Vice Chancellor of the Botswana International University of Science and Technology. He chaired the Steering Committee of the Africa Science Plans under the auspices of the International Council for Science, UNESCO and the United Nations Economic Commission for Africa. He has been a UNESCO Consultant on Water Security. He has performed field research expeditions in numerous countries e.g. China, Siberia (Russia), Brazilian Minas Gerais Region and Slovenia on mining, Alaska and Nigeria on climate change and oil spills, Japan, Finland and Korea on waste management, Taiwan and Canada on rock fragmentation, and Switzerland, Germany and Italy on science policy. He has won numerous research grants from several agencies, including the US National Research Foundation, Sandia National Laboratories (USA), General Electric Corporation, US Environmental Protection Agency, United Nations Development Program (UNDP) and the African Development Bank. He has won more than 20 professional prizes and is a former AAAS/USEPA Environmental Science and Engineering Fellow, US National Research Council Young Investigator and Eisenhower/Randolph Fellow. Prof. Inyang holds a Ph.D. (1989) with a double major in Geotechnical Engineering and Materials, and a minor in Mineral Resources from Iowa State University, Ames, Iowa; an M.S. (1986) and B.S (1985). in Civil Engineering from North Dakota State University, Fargo, North Dakota, USA; and a B.Sc. (Honors) (1981) in Geology from the University of Calabar, Nigeria. He has authored about 290 publications and served on 29 journal editorial boards. He won the 2013 Nigerian National Order of Merit (NNOM) in science and technology and is a Fellow of both the African Academy of Science and the Geological Society of London. Prof. Inyang is a Proost Poet who is currently completing a 10-year long BrownBard Poetry Series, comprising more than 8,000 poems in 50 books to be released in 2025 as the most profound poetry series ever attempted.

Keynote speaker's presentation

Keynote speaker Prof Hillary Inyang spoke on Climate Change-Induced Hazards and Framing of Resilient Systems in Developing Countries. This touched on environmental and other stressors, and their significant implications for human health, the environment, and the livelihoods of people in many developing countries. Planning, design, and implementation of cost-effective measures are warranted to address these associated hazards and forestall disasters.

As estimated by the Intergovernmental Panel on Climate Change (IPCC), the average annual global temperature will increase by 1.8 - 4.0 degrees centigrade beyond pre-industrial levels before the end of this century. Some of the intensifying impacts of global climate change in Africa are pronounced seasonality of rainfall leading to droughts in some regions and flooding in others; erosion of land (including loss of soil nutrients and damage to physical infrastructure) and increase in pollution of surface water bodies; desertification; inundation of coastal facilities due to sea level rise; and relocation of pests. These environmental stressors coupled with the traditional types, have significant implications on the human health, environment and livelihood of people in many developing countries. This circumstance warrants the planning, design and implementation of cost-effective measures to address associated hazards and forestall disasters. The relevant instruments fall within the categories of regulations, policies, monitoring systems, research, technological systems, market incentives, enforcement and international treaties. Socioeconomic and natural factors determine the vulnerability and/or resilience of any jurisdiction to climate change-induced and other disasters. It is particularly important that in the developing countries where measures are often inadequate for addressing the negative impacts of global climate change, that the full range of potentially cost-effective measures be analyzed and evaluated as options for implementation. This keynote lecture will focus on factors that control the frequency and severity of climate change-induced disasters and the measures that can be designed and implemented to manage them in developing countries.

Socioeconomic and natural factors determine the vulnerability or resilience of any jurisdiction to climate change-induced and other disasters. In developing countries, however, measures are often inadequate to address the negative impacts of global climate change. It is therefore important to analyze and evaluate the full range of potentially cost-effective measures. Prof Inyang's keynote focused on factors that control the frequency and severity of climate change-induced disasters and measures that can be designed and implemented to manage them in developing countries. Keynote speaker Dr Kyla Briggs called for an enabling environment focusing on how international organizations can help the SADC region and African continent to develop an agenda that can be implemented, and with concrete targets. These organizations included UN agencies, think tanks, development banks, academics and others.

Presentations by participants

Papers presentations

National-scale spatiotemporal patterns of vegetation fire occurrences using MODIS satellite data.

Upenyu Naume Mupfiga, Onesimo Mutanga and Timothy Dube

Mainstreaming Indigenous Knowledge in Climate Change Response; Practices for Early Warning and Risk Reduction

Morris K. Manyika, Chomba I. Chomba & Martin Mbewe

SADC (Member States) Policy Response to Climate- Induced Loss and Damage: A Scoping Review

Lazarus Chapungu and Godwell Nhamo

Preferences for index-based pasture insurance: a choice experiment in Limpopo Province, South Africa

Bernard Manganyi

Unraveling the Dynamics of Flood Management Policies in Cameroon: An Analysis of Archetypes and Practical Solutions for Enhancing Disaster Resilience

Lum Sonita

Climate change and variability-induced disaster risk management strategies oriented towards enhancing food security in Southern Zimbabwe

Defe Rameck and Matsa Mark

Fostering Urban Resilience through Preparedness Activities – Lessons from Southern Africa

Arianna Francioni

Using GIS to understand vulnerability to climate change-induced disasters in South Africa

Bathabile Nhleko, Simangele Dlamini, Sylvester Maphosa, Kombi Sausi, Nomcebo Ubisi, Tlou Ramoroka

Mainstreaming Indigenous Knowledge in Climate Change Response; Practices for Early Warning and Risk Reduction

Morris K. Manyika, Chomba I. Chomba & Martin Mbewe

Integrated knowledge systems towards flood resilience and sustainable solid waste management in South African urban informal settlements

Admire Nyamwanza, and Katelyn Johnson Harnessing Artificial

Intelligence for Flood Risk Management in KwaZulu-Natal:

A Path Towards Climate-Resilient Communities

Emmanuel Fundisi

Urban Climate Governance, Inaction and Injustice in Buffalo City, South Africa

Philani Moyo

Determinants of the effect of climate change adaptation strategies on household food security among smallholder communities in mid-Zambezi Valley, Zimbabwe

Matume Maila

Linking climate change and spatial and temporal variations of vectorborne diseases: A systematic synthesis of the literature

Pedzisai Kowe

Preparedness of communities to share tacit knowledge on climate change for mitigating drought in Chivi, Zimbabwe

Raymond Mugandani, Phophi Mutondwa Masindi, Liboster Mwadzingeni and Paramu Mafongoya

Resilient Sustainability: Synthesizing a new approach

Jeremy Gibberd

Grassroot Environmental education: Towards disaster risk knowledge among the electronic consumers in Zambia

Daisy Nalwamba

Planning and Governance of South Africa's Smart Cities and Response to, Management and Reduction of Disaster Risk

Ramoroka, T., Maphosa, S.B., Dlamini, S., Sausi, K. & Ubisi, N.

Local Governments' Responses to Climate Change In Africa

Zukiswa Roboji and Christopher Dick-Sagoe

Rethinking urban water planning for disaster risk reduction and groundwater governance

Tavengwa Chitata, Batanai Sammie, Philip Tirivashe Masere, Bester Muderer

Using GIS and remote sensing to map and understand mining-related disasters in South Africa

Simangele Dlamini and Emmanuel Fundisi

The role of local Indigenous knowledge in climate change and early warning risk reduction: A case of Nkomazi Local Municipality, Mpumalanga Province, South Africa

Nomcebo Ubisi, Sylvester Maphosa, Simangele Dlamini, Kombi Sausi and Tlou Ramoroka

Climate indices of dry and wet spells over the Limpopo Province, South Africa

Selelo Matimolane

Implications of disaster management regulations on smallholder farmers' resilience to food insecurity: Lessons from the COVID-19 pandemic

Maureen K. Maisiri a, Alice Ncube, Tlou D. Raphela

Farmers' perception of climate change on aphids' dynamics

Mutondwa Masindi Phophi and Paramu Mafongoya

An Urban Resilience Framework for African Cities

Jeremy Gibberd

Sorghum (*Sorghum bicolor* (L.) Moench) Genotypes Potential on Atmospheric Carbon Sequestration for Climate Change Mitigation

Asande Ngidi

Disaster Risk Reduction and Management in Mozambique: The Pathway on Building Resilience

Antonio Queface, Alberto Mavume and Alfredo Covele

Drought severity assessment under a changing climate in a semi-arid region of Limpopo Province, South Africa.

Selelo Matimolane

Assessing the Role of Adaption Policy in the Land Reform Era: A South African Perspective

Clement Nchabeleng

Determining Susceptibility To Sinkholes Due To Climatic Factors In Ekurhuleni: A Comparison Between Frequency Ratio With Multi Criteria Decision Making Technique

Baleseng T Mokoena, Walter Musakwa, Eric Nyembezi Makoni

The Effects of Coal Mining on Mpumalanga & Limpopo Communities and the Looming Just Energy Transition
Noncedo Maphosho and Dimpho Makitla

Integrating “Top-Down” and “Community-Centric” Approaches: Towards a Conceptual Framework for Community-Based Flood Early Warning Systems in Namibia

Deolfa José Moisés, Nnnesi Kgabi and Olivia Kunguma

Partnerships in climate change adaptation, management, and development: Working cooperatively for human security in the SADC region Maphosa, S.B.,

Ramoroka, T., Sausi, K., Dlamini, S., & Ubisi, N

Settling on water pathways: A case study of Setswetla vulnerability to flash floods

Paulose Mvulane

Evaluation of the characteristics that determine social vulnerability

Jossias, Leila Deizy Armando Parruque, Nhavoto, Maria Lucas

A Governance, peace, and security in the implementation of the AfCFTA

Vincent Chokuda

Disaster Risk Reduction: Planning for migration in urban areas

Yamkela Majikijela and Tshegofatso Ramaphakela

Teenage motherhood – A global, selfreinforcing, slow-onset, human disaster

Junic Magidi

Assessment of Disaster Risk Perception In Maputo

Jossias, Leila Deizy Armando Parruque, Nhavoto, Maria Lucas

Factors influencing the uptake of agroforestry innovations among rural households: Empirical evidence from the KwaZulu-Natal province, South Africa

Fortunate Nosisa Zaca

Assessing Climate Vulnerabilities of Urban Food Systems and Institutional Responses: The Case of Bulawayo, Zimbabwe

Mandlenkosi Maphosa

Disaster risk reduction amongst Children in Southern Africa Beauty Dzawanda and Mark

Makomborero Matsa

Posters presentation

Planning for Migration in Urban Areas

Yamkela Majikijela and Tshegofatso Ramaphakela

Incidence and socio-economic impact of Climate Change in the Rural Districts of Marapong & Nkowankowa in Limpopo Province, South Africa

Caiphus Baloyi and Fezeka Katise

Conference resolutions

Conference resolutions focused on enhancing data sharing among partners, leveraging virtual platforms and local initiatives. Institutions were urged to prioritize networking and collaboration to share resources, exchange ideas, and advance technologies related to early warning, adaptation, and resilience building. Emphasis was placed on engaging young people in Disaster Risk Management (DRM) through capacity building and research career workshops. The conference proceedings are slated for publication in an academic journal, with policy briefs to be produced and published by the HSRC press. The commitment to publishing these materials demonstrates a dedication to disseminating knowledge, shaping policies, and driving change in disaster management strategies across the SADC region and Africa. The active participation of these institutions underscores a collective endeavor to enhance resilience and address vulnerabilities in response to climatic challenges.

VIDEO AND WEB LINKS

YouTube

Playlist of the videos:

https://www.youtube.com/playlist?list=PLWpK_fGZpIZxfELPz-abApMhrGMGrCle

Twitter

https://x.com/HSRCza/status/1716849575762309133?t=4yKybmHZrOo8X_5fXicX4Q&s=08

HSRC website

<https://hsrc.ac.za/news/latest-news/new-perspectives-on-mitigating-the-impact-of-disasters-in-africa-hsrc-attends-the-disaster-risk-management-conference-in-maputo/>

Copy the hyperlink to your Browser or Internet explorer and use the password to access the recording.

https://zoom.us/rec/share/9E6iJCl_BOmGPChaiSjZy0kece5tv9Pgk9RZJ0jAK1OhNpJtz_u2viu-TOYTnePS.iH2THYzeuPFwOZRz

Passcode: E0=q93!g

https://zoom.us/rec/share/pIL09suv1sWYyZ4LBTMGn5hiim9My19M2qCPJCcvMKgG7AdZZw43CGebRtBhc2FI.eWZ_HOduLxGMNSya

Passcode: 6&ujtin^

CONFERENCE PARTICIPANT

CONFERENCE REGISTER



CLIMATE CHANGE AND FUTURES IN AFRICA CONFERENCE SERIES

Towards Local Solutions to Early Warning and Disaster Risk Reduction in the Southern Africa Development Community (SADC) and beyond

08-10 November 2023 | Radisson Blu Hotel, Maputo



Surname	Name	Day 1	Day 2	Signature
Alubafi	Mathias F	✓	✓	<i>[Signature]</i>
ATSE	Kambo Martial			
Awah	Lum Sonita			
Baloyi	Caiphus	✓	✓	<i>[Signature]</i>
Beleza	Antonio			
Bikeko	Samuel Shibeshi			
Bohler-Muller	Narnia			
Cadir	Roxan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Chakunda	Vincent	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Chapungu	Lazarus	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Charamba	Sunungurayi			
Chiba	Moffat			
Chipu	Mmakwena	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Chitata	Tavengwa	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Covele	Alfredo	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Covele	Alfredo			
Defe	Rhamec	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Deizy	Jossias, Leila	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Ditaunyane	Lucky			
Dosse	Michaque			
Dzawanda	Beauty			
Erasmus	Antonio	✓	✓	<i>[Signature]</i>



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Surname	Name	Day 1	Day 2	Signature (Registration)
Mafongoya	Paramu			
Magayo	Luke			
Magidi	Junic			J. Magidi
Maidi	Catherine			
Majikijela	Yankela			
Makitla	Dimpho			
Makoa	Mokhantso			
Makoto	Violet			
Mamba	Busisiwe			
MANDLENKOSI	MAPHOSA			
Manganyi	Bernard			
Manyika	Morris			
Maphosho	Noncedo			
Masinga	Fanelesibonge Nosipho			
Matavele	Anselmo			
Mathagu	Fulufhelo			
Mathivha	Fhumulani			
Matimolane	Selelo			
Matiya	Risk			
Matsa	Mark			
Matunga	Great			
Maureen Maisiri	Maureen Maisiri			



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Surname	Name	Day 1	Day 2	Signature (Registration)
Forbes-Biggs	Kylah Meredith			
Francioni	Arianna			
FUNDISI	EMMANUEL	✓	✓	
Gibberd	Jeremy			
Gulele	Xavier			
Haruna	Mshelia Zacharia			
* Hongoro	Charles			
Inyang	Hilary Inyang			
Joao	Jose Moises Deolfa			
Joaquim	Dominic			
Johnson	Katelyn			
Jossias	Leila Parrique			
Juizo	Dinis Luis			
Katise	Fezeka Faith			
Kekana	Tshepiso			
Kheha	Josue			
Khehá	Josué Lásaro			
Kowe	Pedzisai			
Krishnan	Estelle	✓	✓	
Kunguma	Olivia			
Kunguma	Olivia			
* Lunga	Wilfred			



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Surname	Name	Day 1	Day 2	Signature
Mavugara	Robertah	✱	✱	✱
* Mjimba	Vuyo	✱	✱	✱
Mokoena	Balesang			
Moyo	Philani			
Mpshane	Koketso Muriel			
	Neidy Estefânia			
Mucaúque	Felisberto			
Mucaúque	Neidy			Neidy Mucaúque
Mudavanhu	Chipo	✱	✱	✱
Mudhluli	Taona Emmah			
Mugandani	Raymond			
Muhame	Collins			
Mupepi	Oshneck	✓	✓	
Mupfiga	Upenyu Naume	✓	✓	
Musarurwa	Charles	✓	✓	
Mvulane	Paulose Paulose			
Nalwamba	Daizy Shoma			
Nchabeleng	Clement Temosho	✓	✓	
Ncube	Alice			
Nematandani	Adziliwi			
Neshamba	Nelia			
Ngidi	Asande			



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Surname	Name	Day 1	Day 2	Signature
Nhavoto	Maria Lucas			
Nhleko	Bathabile			
Nyamwanza	Admire Mutsa			
Nyoka	Ruth			
Nypwipwy	Vithor			
Parruque	Armando			
Phophi	Mutondwa			
Pondja	Estevão			
Ramaphakela	Tshegofatso			
Ramoroka	Tlou			
Roboji	Zukiswa			
Rwexana	Abongile			
Sambo	Lina Domingos			
Schubmann	Lina			
Semeno Sally	Chuene			
Sobane	Konosoang			
Szarzynski	Joerg			
Tazvinga	Henerica			
Tshuma	Mthulisi			
Ubisi	Nomcebo			
Zaca	Fortunate Nosisa			



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Surname	Name	Day 1	Day 2	Signature
MUNDAWANA	DAVISON			
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CONFERENCE PICTURES



