

16.04.2018 (Monday)

17.00-20.00

SASSCAL: Science-Policy Forum on Climate Change Action in SADC

Venue: Radisson Blu – Small Dome

(Strictly by invitation)

17.04.2018 (Tuesday)

8.00-9.00: Registration of Participants

9.00-10.45

Official Conference Opening

Room: Mosi oa Tunya (Plenary)

Programme Director: M. Derrick Lungu, Acting Permanent Secretary, Ministry of Higher Education, Zambia

09.00 – 09.10: Anthem Zambia

09.10 - 09.20: Prayer by Mr Filippo Zulu

09.20 – 09.30: Welcome Remarks by Board Chair Mrs Jane Chinkusu

09.30 – 09.55: Speech by Dr Wilfried Kraus (BMBF)

09.55 – 10.05: Cultural Dance Group *Barefeet*

10.05 – 10.20: Keynote and official opening by Hon Prof Nkandu Luo, Minister of Higher Education, Zambia

17.04.2018 (Tuesday)

10.30 – 10.45: Group Photo Session

10.45-11.15: Refreshment Break (Main Hall, Old Wing)

11.15-13.00 **SESSION: Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL)**

Room: Mosi oa Tunya (Plenary)

Session Chair: Prof M Chimbari

11.15 – 11.20: Introduction by Prof M Chimbari (SAC SASSCAL)

11.20 – 11.45: SASSCAL – Present state and future by Dr Jane M Olwoch (SASSCAL)

11.45 – 12.15: SASSCAL 1.0 achievements at a glance by Dr Joerg Helmschrot (SASSCAL)

12.15 – 12.45: TBC

12.45 – 13.00: Discussion

13.00-14.00: Lunch Break (Main Hall, Old Wing)

17.04.2018 (Tuesday)

14.00-15.45	<p>Water-Climate-Food Nexus</p> <p><i>Chair: TBC</i></p> <p><i>Room: Mosi oa Tunya (Plenary)</i></p>	<p>Forest Conservation-Climate-Livelihoods</p> <p><i>Chair: Vera de Cauwer</i></p> <p><i>Room: Zambezi</i></p>	<p>Biodiversity – Climate-Food Security</p> <p><i>Chair: Ute Schmiedel</i></p> <p><i>Room: Luangwa</i></p>	<p>Agriculture-Climate-Food Security</p> <p><i>Chair: Flora Pule-Meulenberg</i></p> <p><i>Room: Munali</i></p>	<p>SASSCAL Students meet BMBF</p> <p>Organiser: SASSCAL</p> <p><i>Room: Muchinga</i></p>
14.00-14.25	<p><i>Thomas Himmelsbach, Roland Bäumle</i></p> <p>Deep seated groundwater reserves in Southern Africa: From occasional findings towards a holistic approach and strategic management</p>	<p><i>Patrick Matakala</i></p> <p>Forest cover change analysis in the Mopane (<i>Colophospermum mopane</i>) ecoregion of Zambia: 1975-2010</p>	<p><i>Manfred Finckh et al.</i></p> <p>Applying the concept of anthropogenic transformation syndromes to change processes in the SASSCAL region</p>	<p><i>Rosemary I. Kobue-Lekalake, Keadire Kholo Mogotsi</i></p> <p>Cultivation, value addition and marketing of climate smart emerging crops to improve food security in Botswana</p>	
14.25-14.40	<p><i>Moses N. Chisola et al:</i></p> <p>Mapping water storage in small reservoirs towards climate resilience in Choma district, southern Zambia</p>	<p><i>Vistorina Amputu et al.</i></p> <p>Understanding the impacts of fire and frost occurrence on vegetation structure and species composition in a semi-arid savannah woodland, central Namibia</p>	<p><i>Ngawo Namukonde et al.</i></p> <p>Effects of repeated bush fires on small mammal communities in the Busanga Flood Plain, Zambia</p>	<p><i>Julia Davis et al.</i></p> <p>Considering Religion and Tradition in Climate Smart Agriculture: Insights from Namibia</p>	

17.04.2018 (Tuesday)

14.40-14.55	<i>Tamekeni Nantuua et al.</i> Spatiotemporal variability and characterization of the surface water in the Cuvelai-Etосha Basin, Namibia: A Stable isotope approach	<i>Joyce Lepetu, Garekae Hesekia</i> Socio-economic factors influencing household dependence on forests and its implication for forest-based climate change adaptation and mitigation strategies: a case study of Chobe Forest Reserve	<i>Koketso Tshireletso</i> Vegetation inventory and its utilization in Kgatleng, Kweneng and Central Districts of Botswana	<i>Oreeditse Karabao et al.</i> Insect diversity and population dynamics of natural enemies under poly and monoculture: effects of sorghum and legume vegetation
14.55-15.10	<i>Sven Kralisch et al.</i> Semi-arid Catchments under Change: Adapted Hydrological Models to Simulate the Influence of Climate Change & Human Activities on Rainfall-runoff Processes in Southern Africa	<i>Priscilla Sichone et al.</i> Influences of physical disturbance and soil chemistry on the diversity of vascular plants in Miombo Woodlands, western Zambia	<i>Nekulilo Uuona et al.</i> Impacts of fire on resource utilization of grazers and browsers in the Waterberg Plateau Park, central Namibia	<i>Percy Chimwamurombe, Daniel Haiyambo</i> Isolation of an Azospirillum species from the rhizosphere of the leguminous Bauhinia petersiana in North Eastern Namibia
15.10-15.25	<i>Bernice Setomba et al.</i> The influence of the flood pulse on microbial water quality parameters in the Lower Okavango Delta	<i>Vera de Cauwer et al.</i> Growing stock and biomass models for the timber tree Pterocarpus angolensis	<i>Fainess Chaona Lumbwe</i> Baseline inventory of Zambia's herpetofauna biodiversity	<i>R. Ramathlakola et al.</i> Growth response of morama (<i>Tylosema esculentum</i>) to soil texture and water stress

17.04.2018 (Tuesday)

15.25-15.40	<i>Nasilele Lubinda et al.</i> The Socio-Economic Benefits and Challenges of Inland Water Transport in Zambia: A Case Study of the Barotse Sub Basin	<i>Renaud Mathieu et al.</i> A radar- and LiDAR-based Earth Observation system for monitoring savannah woody structure and changes in Southern Africa	<i>José João Tchamba</i> Characterization and cartography of vegetation in the Chipindo region of Huíla province - Angola	<i>Dickson Ng'Uni, Graybill Munkombwe</i> Agro-morphological evaluation of maize germplasm for climate adaptation and drought tolerance	
15.40-15.45	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	
15.45–17.30	Poster Session on research outcomes Room: ROOM 3 (Old Wing) (tea/coffee served)				Side event: The Extreme Climate Index (ECI) Room: Zambezi Organisers: ARC/XCF, SASSCAL, CSIR
17.30–18.30	'Out of the Box' Keynote: Southern Africa in the Face of Global Economic and Climatic Challenges by Prof. Oliver Saasa Room: Mosi oa Tunya (Plenary) Moderator: Jörg Helmschrot				

17.04.2018 (Tuesday)

19.00: *The Minister's Welcome Reception* (Main Hall, Old Wing)

18.04.2018 (Wednesday)

8.00-9.00: *Registration of Participants* (Main Hall, Old Wing)

8.30-10.30

Session: SASSCAL contributions to the research landscape in Southern Africa

Room: Mosi oa Tunya (Plenary)

Moderator: Mr PN Hamukwaya (SAC SASSCAL)

8.30 - 9.15: Keynote by Manfred Finckh (UHH)

9.15 – 10.30: Panel Discussion

Panellists: Domingos da Silva Neto (SAC, Angola), Joerg Helmschrot (SASSCAL), Stephen Syampungani (CUB, Zambia), Moses A Cho (CSIR, South Africa), Richard Fynn (ORI, Botswana)

**Side Event:
SEACRIFOG
Stakeholder
Consultation
Workshop**

Room: Muchinga

**Organisers:
SEACRIFOG**

10.30-11.00: *Refreshment Break (Poster session)*

18.04.2018 (Wednesday)

11.00-13.00	<p>Water-Climate-Food Nexus</p> <p><i>Chair: Jörg Helmschrot</i></p> <p><i>Room:</i> Mosi oa Tunya (Plenary)</p>	<p>Forest Conservation-Climate-Livelihoods</p> <p><i>Chair: Patrick Matakala</i></p> <p><i>Room:</i> Zambezi</p>	<p>Data, Technology and Infrastructure</p> <p><i>Chair: Brian Mantlana</i></p> <p><i>Room:</i> Luangwa</p>	<p>Land Management</p> <p><i>Chair: Domingos Neto</i></p> <p><i>Room:</i> Munali</p>	<p>Side Event (cont'd): SEACRIFOG Stakeholder Consultation Workshop</p> <p><i>Room:</i> Muchinga</p> <p>Organisers: SEACRIFOG</p>
11.00-11.20	<p>Willem de Clercq et al: Long term hydrological monitoring and modelling in South Africa: to better understand the impacts of climate change on flows and groundwater through enhanced predictive capabilities</p>	<p><i>Paul Mwansa et al</i></p> <p>Investigating the impact of fire on the natural regeneration of woody species in dry and wet Miombo woodland</p>	<p><i>Franziska Zander, Jörg Helmschrot et al.</i></p> <p>The SASSCAL Data and Information Portal</p>	<p><i>Jeremy Perkins</i></p> <p>Sacrificing the ecosystem – researching for research sake in the Kalahari</p>	
11.20-11.35	<p><i>Pulane Koosaletse-Mswela</i></p> <p>Water quality of Kgalagadi; implications for sustainable livelihood adaptation</p>	<p><i>Martin Kambayi et al</i></p> <p>Carbon sequestration in the <i>Cryptosepalum</i> forests of Zambia</p>	<p><i>Nidia Loureiro</i></p> <p>Climate Data Rescue</p>	<p><i>Ambrosio Fortunato et al.</i></p> <p>Effect of climate variations in the sowing date of the main food crops of the central plateau</p>	

18.04.2018 (Wednesday)

11.35-11.50	<i>Wilhelmina Nuule et al.</i> Effect of bush clearing on soil respiration in North-central Namibia: Cheetah Conservation Fund (CCF) and Erichsfelde	<i>Elise Nghalipo et al.</i> The effect of fire history on soil nutrients, soil organic carbon and soil respiration in a semi-arid savanna woodland, central Namibia	<i>Carlos Ribeiro et al.</i> Development of a Meteorological Network for Angola and Climatic Trends	<i>Vincent Nyirenda et al.</i> Farmer-wildlife conflicts in rural areas of eastern Zambia	
11.50-12.05	<i>Henry Zimba et al</i> Earth observation-based assessment of spatial-temporal trends in inundation extent in the Barotse wetland, western Zambia	<i>Mwelwa Malunga, Moses Daura</i> The role of beekeeping in forest conservation, poverty alleviation and climate change mitigation	<i>Thomas Hillmann et al.</i> Interactions between the websites SASSCAL WeatherNet, SASSCAL ObservationNet & PhotoGuide to Plants of Southern Africa	<i>Keoikantse Sianga et al.</i> Spatial refuges buffer landscapes against homogenization and degradation by large herbivore populations and facilitate vegetation	
12.05-12.20	<i>Heike Wanke et al.</i> Groundwater and Surface Water Assessments in the Cuvelai-Etoshia Basin, Namibia	<i>Virgínia Quartin et al.</i> Monitoring deforestation in Huambo Province (Angola) using detection technologies and Geographic Information Systems	<i>Mompoti Bazibi et al.</i> Historical and On-going Data Management and Improving Weather Observational Network Across Botswana	<i>Kefentse Mogwera, Lucas Rutina</i> Ecological predictors of risk areas for carnivore predation on livestock in agricultural landscapes around Makgadikgadi/Nxai National Parks, Botswana	

18.04.2018 (Wednesday)

12.20-12.35	<i>Luetkemeier et al.</i> Uncertainty of rainfall products: Impact on modelling household nutrition from rain-fed agriculture in Southern Africa predictive capabilities	<i>Remmie Hilukwa et al.</i> The natural regeneration of woody plants on abandoned fields in north-eastern Namibia	<i>Bwalya Joseph Kawimbe</i> Soil erosion analysis using the latest Digital Elevation Model from TanDEM-X imagery: Automation of the gully detection in Namibia	<i>Alice Limani Poniso et al.</i> An assessment of climate variability on key forest ecosystem services and its impacts on livelihoods of communities in Onesi Constituency, Namibia	
12.35-12.50	<i>Nelago Iiyambo et al.</i> Comparison of transpiration rates under different bush encroachment intensities, in semi-arid Namibian thorn-bush savanna, during the active transpiring period	<i>Richard Fynn</i> Functional heterogeneity as a control of landscape resilience and biodiversity: insights from northern Botswana	<i>Moses Azong Cho et al</i> A rapid method to assess bush encroachment in the semi-arid savannas of South Africa using MODIS remote sensing data	<i>João Carlos Ferreira, Jerónimo José Diogo</i> Influence of vegetation in the soil erosion mitigation in Luena city	
12.50-13.00	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	

13.00-14.00: Lunch Break (Main Hall, Old Wing)

14.00-15.30 Keynote and panel discussion: Climate Change

Room: Mosi oa Tunya (Plenary)

Moderator: Hannes Rautenbach (SAWS)

18.04.2018 (Wednesday)

<p>14.00 – 14.45: Keynote on Climate change and climate risks by Francois Engelbrecht</p> <p>14.45 – 15.30: Panel Discussion</p> <p>Panellists: Ms Mandisa Mashologu (UNDP Country Director Zambia – TBC), Dr Brian Mantlana (CSIR, South Africa), Prof Henry Sichingabula (UNZA), Dr Keabile Tlhalerwa (UB)</p>					
<p>15.30-15.45: Refreshment Break (Main Hall, Old Wing)</p>					
<p>15.45-17.15</p>	<p>Climate, Climate Change and Adaptation</p> <p>Chair: Keabile Tlhalerwa</p> <p>Room: Mosi oa Tunya (Plenary)</p>	<p>Biodiversity and Land Management</p> <p>Chair: Kristin Krewenka</p> <p>Room: Zambezi</p>	<p>Capacity Development in SADC</p> <p>Chair: Chipilica Barbosa</p> <p>Room: Luangwa</p>	<p>Agriculture-Climate-Food Security</p> <p>Chair: Thomas Hurek</p> <p>Room: Munali</p>	<p>Side Event: Launch of the National Hydrogeological Map of Zambia</p> <p>Room: Muchinga</p>
<p>15.45-16.05</p>	<p><i>Shannon Conradie et al.</i></p> <p>Acute and chronic heat stress risk in desert birds under past, present and future climates</p>	<p><i>Abel Ramoelo et al.</i></p> <p>Mapping essential biodiversity variables using advanced remote sensing techniques: An overview</p>	<p><i>Frikkie Louw</i></p> <p>Capacity Building- Development of Collaborative Master of Science in GIS, Remote Sensing and Earth Observation</p>	<p><i>Flora Pule-Meulenberg et al.</i></p> <p>Using indigenous herbaceous legumes to address soil fertility challenges in some parts of Botswana</p>	<p>Organisers: BGR, WARMA</p>

18.04.2018 (Wednesday)

16.05-16.20	<i>Julia Davis et al</i> Barriers to Climate Change Adaptation in Namibia	<i>Ute Schmiedel, Jens Oldeland</i> Trends and drivers of species and life-form composition of the vegetation in the arid and biodiverse Succulent Karoo of South Africa - based on 17 years of annual vegetation monitoring	<i>Kutlwano Mulale et al.</i> Community Capacity Building for Natural Resource Monitoring at BORAVAST, Kgalagadi South and Kgetsi Ya Tsie Trust, Central District, Botswana	<i>Jann Groenemeyer et al.</i> Pulses and wild legumes with indigenous rhizobial symbionts for food security in the Kavango region	
16.20-16.35	<i>Torsten Weber et al.</i> Analysing regional climate change in Africa in a 1.5°C global warming world	<i>Matthew Walters, Ben Strohbach</i> Determining the changes in vegetation structure in three semi-arid savanna environments in Namibia over the past 60 years	<i>Margaret Macherera, Moses John Chimbari</i> Developing a community centered malaria early warning system based on indigenous knowledge	<i>Utlwang Batlang et al.</i> Water Use Efficiency of Cowpea under Contrasting Environment and Water Deficit Conditions	
16.35-16.50	<i>Robert Lütke-meier, Stefan Liehr</i> Drought risk in Southern Africa: The need for integrated local and regional risk assessments	<i>Kristin Krewenka et al.</i> Diversity and abundance of bees and wasps in Namibia, influence of fire and climate events	<i>Chandapiwa Molefe, Hillary Masundire</i> Adaptation pathways for governance systems in dealing with Climate Change- Case study of Botswana	<i>Kebadire Khola Mogotsi, Rosemary I. Kobue-Lekalake</i> Policy recommendations to support production and value addition of emerging crops in Botswana	

18.04.2018 (Wednesday)

16.50-17.05	<i>Theo Wassenaar et al.</i> Lifting the fog with FogNet – new insights on fog climatology of the Central Namib	<i>Paulina Ziegelski et al.</i> How frost and fire shape vegetation structure in the tropical highlands of Central Angola	<i>Amandio Teixeira-Pinto, Flavio Rogerio</i> Installation of an experimental Basin in River Giraul, Province of Namibe, Angola	<i>Alfred Tamuthiba et al.</i> Effect of soil types and watering frequency on the growth and yield of Kgengwe (<i>Citrullus lunatus</i> var <i>Citroides</i>)	
17.05-17.10	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	Wrap up and 3 key messages	
17.15– 18.30	<p>From Science to Policy</p> <p>Room: Mosi oa Tunya (Plenary)</p> <p>Facilitators: Peter Shisani, Chipilica Barbosa</p> <p>17.15 – 17.35: Science Policy Interface: Challenges and Opportunities by Casper Bonyongo (SASSCAL)</p> <p>17.35 – 18.30: Panel discussion</p> <p>Panellists: TBC</p>				
19.00	<p>SASSCAL Book Launch: Dr Jane M Olwoch (SASSCAL) and Dr Rasmus Revermann (UHH)</p> <p>Conference Dinner (Main Hall, Old Wing)</p> <p>Cultural Programme: Nomakanjani</p>				

19.04.2018 (Thursday)

8.30-10.30

Session: SASSCAL - The Way Forward

Room: Mosi oa Tunya (Plenary)

Moderator: TBC

Panellists: Dr Yonah Seleti (GB SASSCAL, South Africa), Dr Gabriel Miguel (GB SASSCAL, Angola), TBC (SAC SASSCAL), Dr Jane Olwoch (SASSCAL)

10.30-11.00: Refreshment Break (Main Hall, Old Wing)

11.00-13.00

Closure Session

Room: Mosi oa Tunya (Plenary)

Programme Director: TBD

Zambian Anthem

Overview of the SASSCAL Science Symposium presentations by the Symposium Rapporteur: TBA

Remarks and Introduction of the Scientific Committee and Team of Reviewers by the Chairperson of the Scientific Committee – Dr Jörg Helmschrot

Cultural group performance

Awards Ceremony - Scientific Committee - Dr Jörg Helmschrot

Vote of Thanks: SASSCAL Executive Director – Dr Jane M Olwoch

Closing Remarks: Host Country Representative

19.04.2018 (Thursday)

Announcements: LOC - Mr Mutukwa - Especially about the excursions

13.00-14.00: Lunch Break (Main Hall, Old Wing)

14.00-19.00 Excursions

0.5 day: visit to the Old Kenneth Kaunda House (historical site) and Lusaka National Museum (TBC)

20.04.2018 (Friday)

8.30-19.30 Excursions (optional)

1-day: Chaminuka Game Reserve (TBC)

1-day: Chirundu Fossil Forest (TBC)