

SASAS 2021 On-line Conference 18 and 19 November 2021 Program

Thursday 18 November 2021

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| 08:30 Opening | | | |
| Session 1: Climate change and variability | | | Chair: Hector Chikoore |
| 08:35 | 1.1 | Francois Engelbrecht | AR6 and COP26: what are the implications for southern Africa? |
| 09:00 | 1.2 | Remilekun T Akanbi | Integrated assessment of the influence of climate change on current and future intra-annual water availability in the Vaal River catchment |
| 09:15 | 1.3 | Mukovhe Vele Singo | Climate change and fire regimes in Limpopo Grasslands |
| 09:30 | 1.4 | Percy Muofhe | Impacts of Antarctic stratospheric ozone recovery on climate variability and change over southern Africa |
| 09:45 | 1.5 | Nohlhla Dlamini | Projected changes in mid-latitude storm tracks over the Southern Ocean under future climate change |
| 10:00 | 1.6 | Izidine Pinto | Africa's Climate Extremes Response to Stratospheric Aerosol Injection |
| 10:30 Break | | | |
| Session 2: Climate change and variability | | | Chair: Sheldon Strydom |
| 11:00 | 2.1 | Lindumusa Myeni | Impacts of climate variability on soil water content in three different agro-climatic zones of South Africa |
| 11:15 | 2.2 | Mathieu Rouault | Impact of the El Nino Southern Oscillation on the Benguela upwelling. |
| 11:30 | 2.3 | Greg Landwehr | Maximum Energy Producing Synoptic Weather Types of South Africa's Eastern Cape Province |
| 11:45 | 2.4 | Jessica Steinkopf | Spatial-temporal investigations of ERA5 versus ERA-Interim precipitation over Africa |
| 12:00 | 2.5 | Namita Joshi | Future crop suitability assessment and the integration of Orphan crops into Kenya's food systems |
| 12:15 | 2.6 | Mary Funke Olabanji | Climate change impact on water availability in the olifants catchment (South Africa) with potential adaptation strategies |
| 12:30 | 2.7 | Y.I Nocezo | Assessment of smallholder crop farmers' awareness, use, and impact of climate services on household food security in Elundini local municipality, South Africa |
| 12:45 Break | | | |
| Session 3: Dynamic Meteorology and Observations | | | Chair: Michael Barnes |
| 14:00 | 3.1 | Donald Khulu Nkabinde | The Characteristics of Long-lived Summer Rossby Wave Breaking Events in the |
| 14:15 | 3.2 | Musa Masango | The interaction of equatorial Rossby waves with a western boundary barrier: A numerical investigation |
| 14:30 | 3.3 | Tsholanang Rammopo | Investigating Rossby Wave packets over South Africa |
| 14:45 | 3.4 | Tania van Niekerk | Magnetohydrodynamic Rossby waves in the tachocline |
| 15:00 | 3.5 | Thando Ndarana | Two types of ridging South Atlantic Ocean anticyclones over South Africa and the associated dynamical processes |
| 15:15 | 3.6 | Sivla William Tafon | Variability of Total Column Ozone over China |
| 15:30 | 3.7 | Gerhardt Botha | Spatio-temporal characterisation of particulate matter plumes using weather radar observations |
| 15:45 | 3.8 | Markus Geldenhuys | Gravity wave refraction: Cause and consequence |
| 16:00 | 3.9 | Hector Chikoore | An unusual 2020/21 summer over southern Africa |

Friday 19 November 2021

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| Session 4: Science communication, Air Quality and Pollution | | | Chair: Anzel de Lange |
| 08:30 | 4.1 | Amaris Dalton | Atmospheric Science and Renewable Energy |
| 08:45 | 4.2 | C Howlett-Downing | Source apportionment for PM2.5 and trace elements for 2017 - 2020, Pretoria. |
| 09:00 | 4.3 | Nkanyiso Mbatha | Time Series Analysis and Forecasting of Temporal Trends of Atmospheric Mercury in Svalbard, Mace Head and Cape Point: A Machine Learning Approach |
| 09:15 | 4.4 | Ngwako Kwatala | Investigation of the spatio-temporal variation of stratocumulus cloud fraction in association with AOD over the Benguela region |
| 09:30 | 4.5 | C Howlett-Downing | Health Risk Assessment of PM2.5 and PM2.5-bound trace elements in Pretoria, South Africa |
| 09:45 Break | | | |
| Session 5: Extreme weather, Seasonal to sub seasonal | | | Chair: Lesetja Lekolane |
| 10:15 | 5.1 | Neil Hart | Developing a realtime tropical-extratropical cloud band monitor for the Southern Hemisphere |
| 10:30 | 5.2 | Christien Engelbrecht | Skill of the multi-model seasonal forecasting system at SAWS |
| 11:00 | 5.3 | Aimee Serafini | Innovative, Tailored Seasonal Forecasting for Farming Systems in Namibia |
| 11:15 | 5.4 | Danie Boshoff | Exploring fire weather conditions for a Cape Town fire event in 2021 |
| 11:30 | 5.5 | Henno Havenga | Severe convective storm characteristics under varied urbanization scenarios |
| 11:45 | 5.6 | Patience Mulovhedzi | A case study on cumulus parameterization within the gray zone |
| 12:00 | 5.7 | Abubakar, HB | Detection of extreme weather events over Enkangala escarpment using |
| 12:15 Break | | | |
| 12:30 AGM | | | |