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AUDA - NEPAD  
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## CALL FOR PARTICIPANTS: JUNE 30 – JULY 04, 2025 SHORT COURSE IN HYDRO-CLIMATE EXTREMES DATA ANALYSIS USING R

Through the [ACEWATER-III Project](#) implemented by Stellenbosch University (SU) along with 20 partner institutions in the AUDA-NEPAD Networks of Water Centres of Excellence, and the EU delegation to South Africa, the University of Malawi and the Center for Resilient and Agri-Food Systems at the University of Malawi will offer a Graduate short course on “**Hydro-climate Extremes Data Analysis Using R**” to support learning and research in critical areas of resilient agri-food systems.

### Course description

Whilst it is becoming increasingly common for organizations to collect huge amounts of hydro-climate data over time, the existing human capacity falls short of suitable skills to handle the scale, frequency and structure of the data collected. In this short-course, targeting postgraduate students and early career researchers in Malawi, we will explore methods that have been developed to handle the analysis of large collections of hydro-climate time series. Hence, participants will learn: (i) R Fundamentals, (ii) Data Exploration with ggplot2 R package, (iii) Data transformation with dplyr, (iv) Tidyverse time series analysis and forecasting, and (v) Hydroclimatic Extreme Value Analysis. After the course, the participants will be awarded certificates of participation.

### Mode of learning

This is an advanced level blended training course, targeting postgraduate students and early career researchers of various private and public universities and government or private research institutions in Malawi. A maximum of 25 participants will be allowed to physically attend the training at the University of Malawi, Zomba-Malawi. **Only lunches and refreshments will be served to physical participants. Those attending physically shall have to self-sponsor accommodation and travel.**

### Facilitators

Prof. Cosmo S. Ngongondo, Dr. Maurice Monjerezi, & Dr. Elias Mwakilama (SNAS - University of Malawi)

### Registration

Kindly register for the designed training course through the link <https://forms.gle/A2VMpbPtnKMZE4a4A> by Friday 20<sup>th</sup> June 2025. For further details, contact the short course organizer Dr. Elias Mwakilama on +265-888-310-061 or via email at [emwakilama@unima.ac.mw](mailto:emwakilama@unima.ac.mw)

