

JULES Academy

Using our modelling (JULES) linked to our accessible software dissemination (DataLabs) to build capacity in East and West Africa.

Launched in 2025 – we have held an on-line training week which included the science in the model, the code and evaluation techniques.

Report on the JULES Academy

25 people registered. By the end of the week, 20 attendees who used the DataLabs and JULES modelling.

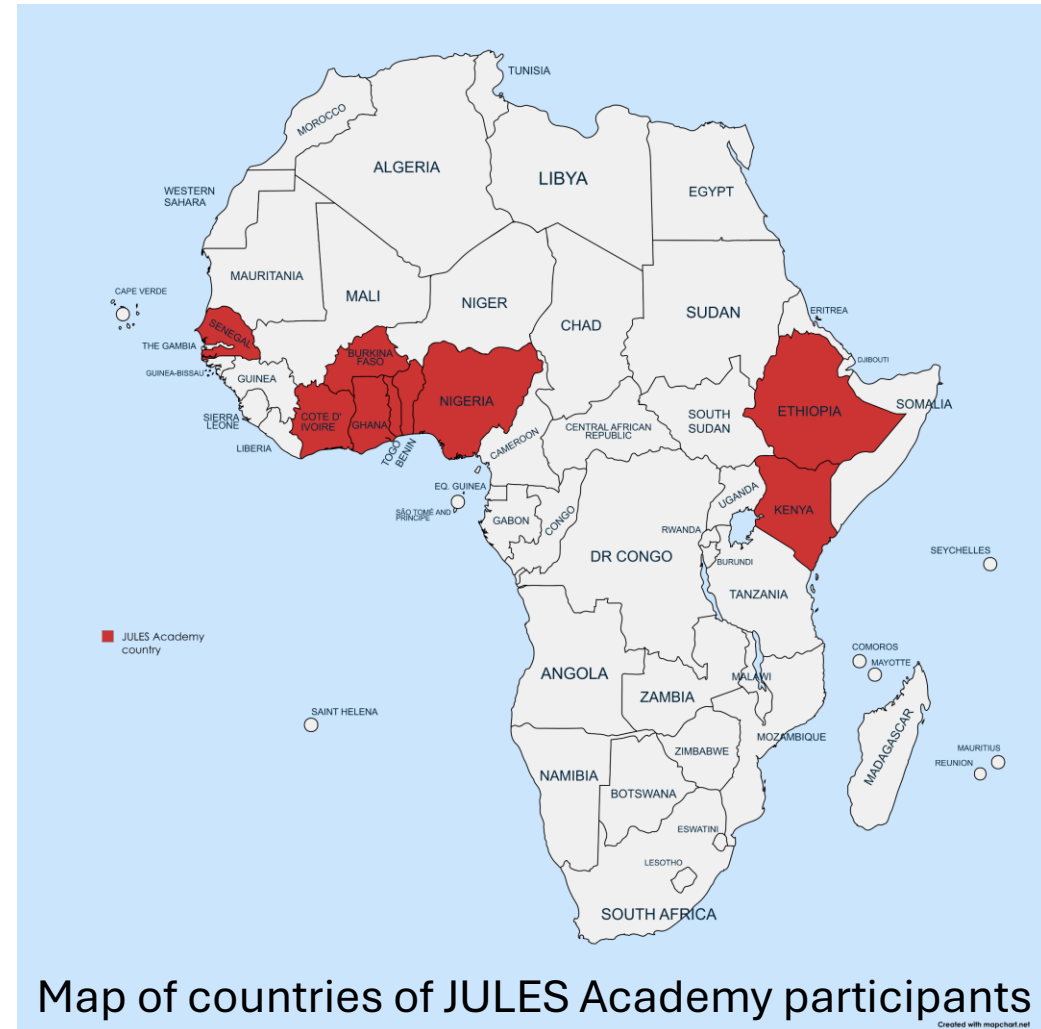
Topics of interest:

Soil processes and vegetation for Africa

Water resources in semi-arid regions

Floods forecasting and other climate services

Sustainable agriculture and forestry



Future partnerships through the Academy

Development of monitoring programme to support land-surface modelling – show how data from monitoring programmes are used in model development. This can be used to support the creation of a Environment Observation Network for East Africa (David Odee - Kenya) or West Africa (Amenze Ovenseri – Nigeria) with international support from GEWEX and iLEAPS.

Analyse pre-run versions of JULES for carbon and water for climate services (ICPAC, Agrimet) e.g. past, current and future climate: ISIMIP, Cordex Africa deliver. DataLabs-based training on access to these products. Share dissemination and data-pipeline practices with Hydrological Outlooks and HydroSOS.

Water resources in Ethiopia and Burkino Faso – interested in working with us to build a modelling system for Ethiopia and West Africa. E.g. put the JULES water resource model developed by Helen Baron (funded by WCSSP) into an Academy format.

Land surface modelling science in Ghana and Nigeria – new ideas about how soils and vegetation interact and how to represent that in JULES. E.g. work with scientists on how to use flux data and/or EO data to inform the model.

Forestry in Kenya - continue partnership with KEFRI e.g. train scientists to test new tree types in JULES and study impact of climate change and support the environmental monitoring proposal.

Sustainable agriculture in East and West Africa – e.g. training on the crop model in JULES especially the Oil Palm.