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## Seasonal Ensemble Simulations in East Africa

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Seasonal forecasting over East Africa is a challenging concern. The European Provision of Regional Impact Assessment on a seasonal to decadal timescale (EUPORIAS) program provides a common framework to understand model uncertainties through the use of multi-member simulations.

In a multi-model approach, the regional climate models (RCMs) were driven by the atmospheric-only version of EC-EARTH global climate model (GCM). An ensemble of five months (May to September) long hindcast has already been produced by EC-EARTH taking into account the bias corrected sea surface temperature from ECMWF System-4 hindcast. As a first step, the performance of one of the engaged RCM, COSMO-CLM (COSMO model in climate mode) was evaluated in capturing the observed regional features over East Africa for the dry year 2009. For investigating this, we incorporated the 15 ensemble members as simulated by CCLM and EC-EARTH models. The accuracy of the model simulations for the chosen year (June to September) was assessed using the global reanalysis data with satellite and ground-based observations. Preliminary results reveal the potential usefulness of improved ensemble simulations, especially in sub-seasonal to seasonal rainfall forecasting. This indicates the importance of RCM simulations in predicting the precipitation extremes in East Africa