

Annual report 2021 for Flagship Pilot Study southeast Africa

Status and progress during the year including scientific highlights, end to end perspective and participants engaged in the project

The progress of CORDEX flagship pilot study (FPS) southeast Africa in 2021 was strongly impeded by the Covid-19 pandemic. A planned physical workshop was postponed to April 2022, but the FPS nevertheless held two telecons. During these, the work plans were discussed and an inventory of data to be shared between the partners has been continued. This inventory is not yet complete, and the data itself needs to be made available, aiming for the period 1950-2020 if possible (same as ERA5, but not the most recent dates). The shared set of in-situ daily temperature (max/min) and rainfall will be used to evaluate the ERA5-land reanalysis to assess possibilities for using the reanalysis for filling in gaps of missing data. This data will also provide a basis for training and capacity building based on R, in addition to exploring empirical-statistical downscaling (ESD) and evaluating regional climate models (RCMs; e.g. CORDEX-Africa runs). As a result, a series of R training has been carried out targeting not only the project partners but also students over the project domain. In addition to the pandemic, lack of resources also slows progress, e.g. lack of hardware and lack of funding for the work (salaries). The FPS continued building a network on climate science in southeastern Africa and managed to create an understanding of what is needed for making scientific progress.

Summary of each workshop/activity held during the year

Title, date, short description, location, website, links	Responsible person/-s	Funder
Third telecom	Bernardino and Rasmus	NA
Fourth telecom	Bernardino and Rasmus	NA
CORDEX Africa - FPS southeast Africa workshop	Bernardino, Rasmus, Wilfried, Chris, Irene and Anna	IPOC

Related publications during the year

Title, journal and link to publication	Author/-s	Date
Modelling the Southeast African regional Climate , EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-5319, https://doi.org/10.5194/egusphere-egu21-5319 , 2021	Benestad, R., Ntantumbo, B., Prosper, A., Ndakize Sebaziga, J., Tuyisenge, A., Vanya, C., Chaimite, B., and Bopape, M.-J.	Wednesday, 28 April 2021, 13:42 CEST

Planned activities for next year

Workshop together with Cordex-Africa. Data collection R-training Evaluation of ERA5 land datasets based on in situ shared data using ESD methods.
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Additional relevant information

Pandemic slows down progress.

Bernardino, Jonas and Rasmus

Contact person/-s

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The report is due the 15th of February each year and should be sent to ipoc@cordex.org.