Workshop report: Training on ENACTS Data Library and Maproom software

January 2018

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Alison Rose

Training on ENACTS Data Library and Maproom Software

Kigali, Rwanda, January 2018

Workshop Report

CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS)

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Abstract

This report describes training activities in Kigali, Rwanda, January 2018, led by the International Research Institute for Climate and Society (IRI)'s John del Corral. The training visit was part of the Rwanda Climate Services for Agriculture project – a four-year initiative (2016-2019) funded by the U.S. Agency for International Development (USAID) that seeks to transform Rwanda's rural farming communities and national economy through climate services and improved climate risk management. The purpose of the visit was install the ENACTS Data Library and Maproom software on a new, faster server at the Rwanda Meteorological Agency as well as train IT staff and meteorology staff in the installation and management of the ENACTS Data Library server. The topic of updating and adding datasets to the ENACTS Data Library was also covered during the training.

Keywords

Climate services, Maproom, Capacity building, ENACTS

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Contents

Introduction 8

Historical Onset Date Maproom ..... **Error! Bookmark not defined.**

Preciptitation Forecast Maproom ..... **Error! Bookmark not defined.**

Conclusion 8

Appendix 1: Participant List 10

Appendix 2: Daily Programme 11

Acronyms

CCAFS	Research Program on Climate Change, Agriculture and Food Security
CIAT	International Center for Tropical Agriculture
ENACTS	Enhancing National Climate Services Initiative
IRI	International Research Institute for Climate and Society
Meteo Rwanda	Rwanda Meteorological Agency
USAID	U.S. Agency for International Development

Introduction

This report describes training activities in Kigali, Rwanda, January 2018, led by the International Research Institute for Climate and Society (IRI)'s John del Corral. The CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), in collaboration with IRI, held trainings for the Rwanda Meteorology Agency (Meteo Rwanda). The training was held in Kigali, Rwanda, from January 6–13, 2018. The training visit was part of the Rwanda Climate Services for Agriculture project – a four-year initiative (2016-2019) funded by the U.S. Agency for International Development (USAID) that seeks to transform Rwanda's rural farming communities and national economy through climate services and improved climate risk management.

Training

The purpose of the visit was install the ENACTS Data Library and Maproom software on a faster computer at the Rwanda Meteorological Agency as well as train IT staff and meteorology staff in the installation and management of the ENACTS Data Library server and in updating and adding datasets to the ENACTS Data Library.

The installation of a new server required several other changes, such as synchronization of the datasets and Data Catalog on the new server with the production server, synchronization of the new server with the production server, changing from the previous Maproom server to new Maproom server at Meteo Rwanda, creating Data Library logins for the data managers, and creating backups of the installed system as well as the installation of the latest login authorization software.

The staff at Meteo Rwanda was also given training to allow them to use these new upgraded tools and services. Specific topics included training on Google Analytics to analyze the use of the Rwanda maproom and Data Library, training on the relationship between the data files, Data Catalog, and the maproom, and training with the Data Catalog. Exercises were also performed with the staff to view the contents of netCDF files and work with practice datasets to create a correct Data Catalog entry. The participants were trained on diagnosing Data Library and Maproom problems and how to correct them. A final session reviewed maproom capabilities with participants.

Conclusion

There was not enough time in one week to do both the installation on a new server and accomplish all the training objectives. Other training sources need to be considered, like better documentation, webinars, or videos.

Staff at Meteo Rwanda liked the hands-on training sessions better than just reading documentation. Exercises were conducted in an open collaborative mode. The team at Meteo Rwanda would like to see a regional training program on adding datasets to the Data Library and creating maprooms.

Meteo Rwanda has hired several new people in the data group and purchased new computers. There is a desire to be self-supporting of the ENACTS Data Library and maprooms.

Appendix 1: Participant List

Name	Organization	Gender
Ernest Bagambiki	Meteo Rwanda	M
Peace Bamurange	Meteo Rwanda	F
Vedaste Iyakaremyz	Meteo Rwanda	M
Clarisse Mukazarukundo	Meteo Rwanda	F
Fidele Maniraguha	Meteo Rwanda	M
Felix Mucyo	Meteo Rwanda	M
Godfrey Musafiri	Meteo Rwanda	M
Jack Ngdoiamo	Meteo Rwanda	M
Joseph Sebaziga	Meteo Rwanda	M
Amos Uwizeye	Meteo Rwanda	M

Appendix 2: Daily Programme

January 8: Arrive with a pre-built Data Library and maproom server on a USB disk and install on a server machine from Meteo Rwanda at the CIAT training room. Train staff on installation and maintenance of the server, including monitoring system health. Train staff on using Google Analytics to analyze the use of the Rwanda maproom and Data Library.

January 9: Synchronize the datasets and Data Catalog on the new server with the production server. Train staff on the relationship between the data files, Data Catalog, and the maproom.

January 10: Finish synchronization of the new server with the production server. Perform hands on exercises with the staff to view the contents of netCDF files and work with practice datasets to create a correct Data Catalog entry. Transfer the new server from CIAT to Meteo Rwanda.

January 11: Switch from old maproom server to new maproom server at Meteo Rwanda. Integrate into the external facing network. Hands on training with the Data Catalog. Create Data Library logins for the data managers. Test logins using ssh (secure shell).

January 12: Create backups of the installed system. Begin installing the latest login authorization software. Review maproom capabilities with participants. Print and sign certificates of completion of Data Library and maproom training.