



WORKSHOP REPORT

Installation and Training in Automatic Weather Station Data Tool (ADT) for the Ghana Meteorological Agency (GMet)

Rija Faniriantsoa | Amanda Grossi

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Workshop Report

Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA)

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Accelerating Impacts of CGIAR Climate Research in Africa (AICCRA) is a project that helps deliver a climate-smart African future driven by science and innovation in agriculture. It is led by the Alliance of Bioversity International and CIAT and supported by a grant from the International Development Association (IDA) of the World Bank. Explore AICCRA's work at aiccra.cgiar.org

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About the Authors

Rija Faniriantsoa is a senior staff associate at the International Research Institute for Climate and Society at Columbia University's Climate School.

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Introduction

The Automatic Weather Station Data Tool (ADT) is a web-based tool initially developed by the IRI in the context of Rwanda. The ADT helps to address challenges in accessing and processing Automatic Weather Station (AWS) data collected by different systems and networks such as Vaisala, Edkon, and KOICA, which are on different servers and in different formats, by enabling data quality control, processing, and visualization.

The intention of this workshop was to install ADT for the Ghana Meteorological Agency (GMet) and provide training in its use. Installation and training took place from March 21-29, 2022.

Program Outline

Installation and Training Agenda		
Installation		
Installation and Configuration	Inventory of all available AWS networks	
	Gathering all AWS Metadata	
	Installation of all required software	
	Configuration of the web server and the database server	
	Populate the new database	
Deployment		
	Installation of the AWS data processing packages and the web application	
	Deployment of the web application	
	Configuration of the API server	
	Testing and troubleshooting	
Training Activities		
Maintenance of ADT (IT Staff)	Introduction of ADT	
	Structure of ADT	
	Web Application	
	User creation	
ADT server	Updating packages	
	Checking the system	
AWS servers	Updating packages	
	Editing AWS list	
	Adding new stations	
Training: Web Application navigation (GMet Users)	Introduction of ADT	
	Navigation and understanding maps & graphs	
	AWS metadata, AWS status, AWS original time steps, AWS aggregated data	
Navigation and understanding maps & graphs	AWS aggregated selection	
	Rainfall accumulation	
	Wind data	
	Mean sea level pressure	

List of Participants

Institution	Gender	Youth
GMet	M	No
GMet	M	No
GMet	M	Yes
GMet	M	Yes
GMet	M	No
GMet	M	Yes
GMet	M	No
GMet	M	Yes

A total of eight people were trained, all of whom were male, and four of whom were under 35 and hence considered as youth.



AICCRA
Accelerating Impacts of CGIAR
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