MINISTRY OF NATURAL RESOURCES AND CLIMATE CHANGE

DEPARTMENT OF CLIMATE CHANGE AND METEOROLOGICAL SERVICES

Activity Brief

The Department of Climate Change and Meteorological Services (DCCMS), with support from the Norwegian Agency for Development Cooperation (Norad) under the ARCS project, organised a specialised training programme aimed at strengthening the Department's capacity in numerical weather prediction and enhancing the accuracy and timeliness of weather forecasts. The training was held in Zomba from 14th to 18th July 2025 and brought together DCCMS meteorologists from across the country. Participants were trained in weather modelling, data analysis, visualisation, and the practical use of forecasting tools, contributing to DCCMS's broader objective of delivering reliable, climate-informed weather messages to support community preparedness and resilience.

[14TH July – 18TH July 2025] [Zomba] Publication No: [T.R2025/07]

Title of the Activity

Numerical Weather Prediction and Forecasting Tools Training for Meteorologists.

Objective of the Activity

The training aimed to enhance technical forecasting skills among DCCMS forecasters by exposing them to modern tools and techniques in numerical weather prediction. Specifically, the training focused on improving interpretation of model data, visualisation of forecast outputs, and their application in day-to-day forecasting. It also aimed to improve forecasters' ability to generate accurate short-, medium-, and seasonal forecasts and to issue timely early warnings for severe weather events.

Key Activities Conducted

- The training involved a series of practical and interactive sessions designed to build technical capacity among meteorologists. Participants engaged in hands-on training in model interpretation and visualisation of weather data using various forecasting platforms. They also took part in practical sessions focused on short- and medium-range forecasting techniques. In addition, the training included demonstrations on the use of weather models and how to integrate model outputs into daily operational routines. Peer learning sessions further enhanced understanding of how forecast-based information can be used to issue timely early warnings for severe weather events.

Partners/Project

- [Norwegian Agency for Development Cooperation (Norad), Agricultural resilience through climate services (ARCS)]

Key Takeaways / Outcomes

• Forecasters gained practical skills in interpreting and visualising numerical weather model outputs.
• Participants enhanced their ability to issue accurate and timely weather forecasts and warnings.
• The training strengthened internal capacity for generating seasonal, short-, and medium-range forecasts.
• The sessions reinforced the importance of forecast verification and the use of modern forecasting tools.
• The initiative contributes to improved public weather services, enabling better preparedness for weather-related hazards.

Photo Highlight

Participants taking a group photo.

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DCCMS Officers Involved

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