WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

WMO OMM
World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat
7 bis, avenue de la Paix – Case postale 2300
CH 1211 Genève 2 – Suisse
Tél.: +41 (0) 22 730 81 11
Fax: +41 (0) 22 730 81 81
wmo@wmo.int – public.wmo.int

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Our ref.: 09631/2024/MS/ETR/CRS-1724 12 June 2024

Annexes: 3 (available in English only)

Subject: WMO Training Course on Radar Meteorology at the National Meteorological Training Centre (NMTC) of Tanzania Meteorological Authority to be held in Mwanza, United Republic of Tanzania from 26 to 30 August 2024

Action required: For information and appropriate action, as necessary

Dear Sir/Madam,

In support of the capacity development of meteorologists and forecasters in National Meteorological and Hydrological Services (NMHSs), the World Meteorological Organization (WMO) Education and Training Office in collaboration with the National Meteorological Training Centre (NMTC) of the Tanzania Meteorological Authority (TMA), has designed a training course on Radar Meteorology for the development of competencies on the use of radar data and its products in weather forecasting.

The course is focused on enabling operational meteorologists from Burundi, Comoros, Democratic Republic of the Congo, Kenya, Mozambique, Malawi, Mauritius, Rwanda, Seychelles, South Sudan, Uganda, and Zambia to issue weather and climate related warnings and alerts on hazards and extremes to the public and communities using radar data and products as support to the implementation of the Early Warnings for All initiative (EW4ALL) in the region. The training will run for a duration of one week, from 26 to 30 August 2024, in Mwanza, United Republic of Tanzania. Annexes I and II to this circular letter contain a brief description of the course, its format, expected learning outcomes, and qualifications to be attained.

Therefore, you are invited to submit an application form (Annex III) for an interested and qualified candidate for consideration. All applications will be jointly reviewed by WMO and NMTC-Tanzania. Selection for this course will be made on a competitive basis. Please note that while Members are encouraged to cover the expenses of their participants to attend the course, WMO is prepared to support up to two participants each from selected Members.

Any interested candidate from the countries listed in paragraph two, should first apply by sending a duly completed application form (Annex III) with the relevant attachments to NMTC-Tanzania (met@meteo.go.tz) with a copy to tra@wmo.int and wilbert.muruke@meteo.go.tz no later than **19 July 2024**. Applications received after this date will not be considered. The selected candidates will be notified by NMTC-Tanzania and will be contacted by WMO for the preparation of the travel logistics. Candidates should ensure that their travel documents (passport, visa, etc.) valid.

To: Permanent Representatives of Burundi, Comoros, Democratic Republic of the Congo, Kenya, Mozambique, Malawi, Mauritius, Rwanda, Seychelles, South Sudan, Uganda, and Zambia (limited distribution)

cc: Hydrological Advisers

May I take this opportunity to assure you of my unwavering commitment to capacity development-related activities in support of competency development and to thank you for your continued cooperation in this endeavour.

Yours faithfully,

Prof. Celeste Saulo
Secretary-General

WMO TRAINING COURSE ON RADAR METEOROLOGY
NATIONAL METEOROLOGICAL TRAINING CENTRE (NMTC-TANZANIA)
UNITED REPUBLIC OF TANZANIA

1	Host Member	United Republic of Tanzania
2	Host institution(s)	National Meteorological Training Centre (NMTC-Tanzania) Tanzania Meteorological Authority (TMA)
3	Website	https://www.meteo.go.tz/
4	Location(city) of Institution(s)	Mwanza, United Republic of Tanzania
5	Address of Institution	P.O. Box 301, Kigoma, United Republic of Tanzania
7	Course type	In person
8	Main course content	• Fundamentals of Radar Meteorology • Radar Meteorology Measurements (Reflectivity, velocity, amplitude, frequency etc.) • Radar Imagery interpretation • Advanced Radar Techniques (dual-polarization radar, Doppler radar and phased-array radar) • Applications of Radar Meteorology
9	Duration of study	5 days
10	Course dates	26 to 30 August 2024
11	Target Region and Members	Burundi, Comoros, Democratic Republic of the Congo, Kenya, Mozambique, Malawi, Mauritius, Rwanda, Seychelles, South Sudan, Uganda, and Zambia
12	Basic requirements	Relevant qualification in Meteorology, experience the use of Remote Sensing data
13	Language	English
14	Number of awards	Up to 24 participants
15	Application form	Mandatory
16	Admission from institution	Mandatory
17	Applications closing date	NMTC: **19 July 2024** WMO: After selection process **2 August 2024**
19	Contact info	Director General, TMA: met@meteo.go.tz copy to: ladislaus.changa@meteo.go.tz; wilbert.muruke@meteo.go.tz; and tra@wmo.int

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TANZANIA METEOROLOGICAL AUTHORITY (TMA)
UNITED REPUBLIC OF TANZANIA

WMO Training course on Radar Meteorology

Course description

The WMO Training Course on Radar Meteorology is a training that will be held for five days organized by the National Meteorological Training Centre (NMTC) of the Tanzania Meteorological Authority (TMA) in Mwanza, United Republic of Tanzania. The training is organized to enhance meteorologist and forecasters' skills and knowledge in:

1. Monitoring and analysis of near real-time weather at the country and regional level;
2. Issuing of warnings and alerts to the public and communities on hazards and extremes related to weather and climate;
3. Generating and providing essential near real-time weather forecasts, especially for the public, aviation, and marine sectors.

It is imperative that forecasters be equipped with the relevant skills and knowledge that will enable them to carry out these responsibilities competently.

The students will learn the interpretation of radar images and products in nowcasting techniques. The course will provide the skills and knowledge that support the WMO competencies that relate to the use of radar data by operational meteorologists.

Course format

The training course will be in person at Malaika Beach Hotel in Mwanza City, United Republic of Tanzania from 26 to 30 August 2024

The students must show satisfactory attendance, progress, and timely and satisfactory completion of tasks/quizzes as per submission deadlines. Participants are recommended to bring their own laptops.

Expected learning outcomes

By the end of the course, the students will have successfully achieved the following outcomes:

1. Enhanced understanding of radar principles and technology;
2. Utilize and interpret radar imagery to analyse and monitor continually the evolving meteorological situation and warn of hazardous phenomena;
3. Improved ability to identify and analyse weather features;
4. Use forecasting tools to monitor the weather for timely issuance of warnings and alerts on weather-related hazards; and
5. Proficiency in using radar software and applications.

Attained competencies and issued certificates

After successful completion of the course, the candidates will receive a competency certificate stating the underpinning skills that support the WMO competencies that relate to the use of radar products by operational meteorologists/forecasters.

Target audience

Operational meteorologists/forecasters, meteorological trainers, specialists, and remote sensing experts working in relevant fields in National Hydrological and Meteorological Services (NMHSs) in the target countries.

Instructors

Trainers from TMA and NMTC will be the instructors at the course. Additional content experts may be involved for specific portions/subjects of the course.
The course will be conducted in English. Translation in other languages is not offered.

Entry requirements

1. Academic qualifications: Relevant qualification in Meteorology related to BIP-M;
2. Good skills in English reading, written and spoken (language comprehension);
3. Good computer literacy for data processing and visualization;
4. All this needs to be verified by proof of CV and qualifications;
5. Work experience: Relevant work experience in operational forecasting is preferred.

Useful resources in preparing for the course

A laptop or desktop computer with Microsoft Office or equivalent (Word processer, Power Point Presentation etc.) good memory capacity and storage (an external storage is advised). A laptop would be preferable as it can be used during the hands-on practices.

Procedure for application

The applications thus must include:

1. Application form;
2. A letter of motivation in English limited to 200 words;
3. A CV;
4. Relevant certified qualifications (BSc, PGD, MSc and PhD);
5. Signed nomination letter from the relevant Permanent Representative.

All applications will be dealt with according to protection of private information requirements.

Application for consideration should be forwarded to:
National Meteorological Training Centre (NMTC)-Tanzania The Principal, NMTC:
nmtc@meteo.go.tz and met@meteo.go.tz

Clearly mark the subject of the email as: NMTC-Tanzania – WMO Training Course on Radar Meteorology

Copy to: Education and Training Office WMO: tra@wmo.int, Wilbert Muruke: wilbert.muruke@meteo.go.tz

Deadlines for application: **19 July 2024** to NMTC-Tanzania and after selection process, and deadline for submission of travel documents **2 August 2024**.

Only successful applications will be notified by email by NMTC-Tanzania and WMO.

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APPLICATION FORM

WMO TRAINING COURSE ON RADAR METEOROLOGY
NATIONAL METEOROLOGICAL TRAINING CENTRE (NMTC), TANZANIA

Mwanza, United Republic of Tanzania

26 to 30 August 2024

Note: Please read the notes and instructions on the last page before completing this application form

A. PERSONAL	
1. First name	
2. Family name	
3. Country	
4. Date of birth *(DD/MM/YYYY)*	
5. Gender	M / F
6. Passport number	
7. Passport validity	
8. Do you have a disability	Yes / No
If yes, please specify	
9. Permanent home address	
(number, street, postal code, town)	
10. Telephone *(mobile)*	
11. Email	
12. Professional contact	
Name	
Telephone *(office)*	
Professional links	
13. Would you request financial assistance to participate at the course? Yes / No	

B. EDUCATION

Have you completed the Basic Instruction Package for Meteorologists (BIP-M)? Yes / No

C. GENERAL

1. Give details of working experience in meteorology

Name of organization	Starting and end date	Brief description of role and responsibilities	Reason for leaving

2. Write a brief statement setting out clearly why you have chosen this course and how you intend to use it after graduation

I declare that to the best of my knowledge all the information on this form is true and correct.

Signature Date

D. PERMANENT REPRESENTATIVE ENDORSEMENT

Signature Date

Notes and instructions

Please read these notes and instructions carefully before completing this application form. Be sure to read every section and that the information you provide is accurate.

1. Incomplete application forms will not be considered;

2. Applications received after the closing dates will not be considered;:

3. You must supply all the information requested or explain why you cannot provide it;

4. A certified copy of the passport must be included in the application;

5. Only successful candidates will be contacted by email or phone. Please ensure that your contact details are clearly written and correct.

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