

**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

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Ref.: 27655/2023-13 MS/ETR

Our ref.: 27655/2023/MS/ETR/CRS-224

19 December 2023

Annexes: 3 (available in English only)

Subject: WMO Course on Nowcasting Severe Weather Events in Africa

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 WMO Regional Training Centre in the Kenya Meteorological Department, Institute for Meteorological Training and Research (KMD/IMTR – RTC Nairobi) and the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) has designed a training course for the development of competencies on the use of satellite data and products in weather nowcasting. The course is focused on enabling English-speaking operational meteorologists from WMO Regional Association I (RA-I) to issue warnings and alerts on hazards and extremes related to weather and climate to the public and communities using satellite data and products as support to the implementation of the Early Warnings for All initiative (EW4ALL) in RA I.

The training will run for a duration of 2 weeks online (12 to 23 February 2024) and 1 week in the classroom (4 to 8 March 2024). Annexes I and II to this circular letter contain brief description of the course, its format, expected learning outcomes, and qualifications to be attained.

You are invited to submit an application form (Annex III) of an interested and qualified candidate for consideration. All applications will be jointly reviewed by WMO and the Institute for Meteorological Training and Research – Regional Training Centre (IMTR – RTC) Nairobi. The selection for this course will be made on a competitive basis. Please note that while we encourage Members to cover the expenses of their participants to attend the course, WMO is prepared to support one participant each from selected Members.

Any interested candidate from countries in WMO RA-I should first apply by sending a duly completed application form (Annex III) with the relevant attachments to IMTR – RTC Nairobi (imtr.wmo.rtc.nairobi@gmail.com) with a copy to tra@wmo.int no later than **27 January 2024**. Applications received after this date will not be considered. The selected candidates will be notified by IMTR – RTC Nairobi and will be contacted by WMO for the preparation of the travel logistics. Thereafter, they will receive a Request for Financial Assistance (RFA) form to complete and send back to WMO along with the selected candidate's passport, no later than **3 February 2024**.

To: Permanent Representatives of Members with WMO in RA I (English Speaking countries)

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 thank you for your continued cooperation in this endeavour.

Yours faithfully,

A handwritten signature in blue ink, consisting of a long horizontal stroke followed by a smaller, curved stroke underneath.

Prof. Petteri Taalas
Secretary-General

The Institute for Meteorological Training and Research

(IMTR/WMO – RTC Nairobi)
Kenya

1	Host Member	Kenya
2	Host institution(s)	The Institute for Meteorological Training and Research (IMTR/WMO – RTC Nairobi)
3	Website	https://meteo.go.ke
4	Location(city) of Institution(s)	Nairobi, Kenya
5	Address of Institution	Dagoretti Corner, Ngong Road P.O Box 30259, 00100 Nairobi, Kenya
7	Course type	Blended; Online and face-to-face at IMTR – RTC Nairobi
8	Main course content	<ul style="list-style-type: none"> • Satellite imagery and their applications • RGB mechanics and satellite product interpretation • Access, processing, manipulation, and visualization of Satellite data products
9	Duration of study	Online: 2 Weeks, Face to Face; 1 week
10	Course start date	Online: 12 to 23 February 2024 Classroom: 4 to 8 March 2024
11	Target Region and Members	English speaking countries among Regional Association I
12	Basic Requirements	Relevant qualification in Meteorology related to BIP-M, Expert and experience in Remote Sensing
13	Language	English
14	Number of awards	Up to 20 participants
15	Institution application	Mandatory
16	Admission from Institution	Mandatory
17	Applications close date	IMTR: 27 January 2024 WMO: After selection process, 3 February 2024
18	Document to send to WMO after selection process	<ol style="list-style-type: none"> 1. Pre-admission letter from host institution 2. Request for Financial Assistance (RFA)
19	Contact info	The Director, IMTR imtr.wmo.rtc.nairobi@gmail.com copy to tra@wmo.int

**The Institute for Meteorological Training and Research
(IMTR/WMO – RTC) Nairobi, Kenya**

WMO Course on Nowcasting Severe Weather Events in Africa

Course description

The WMO Course on Nowcasting Severe Weather Events in Africa is a blended training that will be held for 2 weeks online and 1 week in-person in IMTR WMO RTC Nairobi, Kenya. The training is organised to enhance forecasters' skills and knowledge in:

- a) Monitoring and analysis of near real-time weather at the country and regional level.
- b) Issuing of warnings and alerts on hazards and extremes related to weather and climate to the public and communities.
- c) 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 Satellite images and products, integration of NWP and satellite products in Nowcasting and satellite data, and product access and visualization tools.

The course will provide the skills and knowledge that support the WMO Competencies that relate to the use of satellite data by operational meteorologists.

Course format

This will be a blended (online & face-to-face) course;

- a) Online: 12 to 23 February 2024 and
- b) Face-to-face: at RTC Nairobi in Kenya; 4 to 8 March 2024

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

Expected learning outcomes

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

1. Utilize and interpret satellite products to analyse and monitor continually the evolving meteorological situation and warn of hazardous phenomena.
2. Use forecasting tools to monitor the weather for timely issuance of warnings and alerts on weather-related hazards.
3. Analyse, interpret, and compare satellite data, NWP, and in-situ data to generate impact based nowcasts and carry out forecast Verification.

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 satellite data by operational meteorologists.

Target audience

Operational meteorologists, meteorological trainers, specialists, and remote sensing experts working in relevant fields at National Hydrological and Meteorological Services (NMHSs) in RA I.

Instructors

Trainers from EUMETSAT and IMTR will be the instructors at the course. Additional content experts may be brought in for specific portions/subjects of the course.

Working language

The course will be conducted in English. No translation in other languages is offered.

Entry requirements

- Academic qualifications: Relevant qualification in Meteorology related to BIP-M;
- Good Skill in English reading, written and spoken (language comprehension);
- Good computer literacy for data processing and visualization;
- All this needs to be verified by Proof of CV and qualifications.

Work experience: Relevant work experience in using operational satellite imagery is preferred.

Useful resources in preparing for the course

A laptop or desktop computer with Microsoft Office or equivalent (Word processor, PowerPoint Presentation etc) good memory capacity and storage (an external storage is advised). A laptop would be preferable as it can be used during the face-to-face phase.

Procedure for application

The Applications thus must include:

- A letter of motivation in English limited to 200 words;
- A CV;
- Relevant certified qualifications;
- Nomination letter from relevant Permanent Representatives (PR).

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

Application for consideration should be forwarded to:

Institute for Meteorological Training and Research – RTC Nairobi
The Director, IMTR
imtr.wmo.rtc.nairobi@gmail.com

Clearly marked as subject of the email: RTC Nairobi - Kenya – WMO Course on Nowcasting Severe Weather Events in Africa

Copy to:

Education and Training Office

WMO

tra@wmo.int

Deadlines for application: **27 January 2024** to RTC Nairobi and after selection process, and deadline for submission of travel documents **3 February 2024**.

Only successful applications will be notified by email by RTC Nairobi and WMO.

APPLICATION FORM

WMO Course on Nowcasting Severe Weather Events in Africa

IMTR – RTC Nairobi

Online: 12 to 23 February 2024

Face-to-face: 4 to 8 March 2024

Nairobi, Kenya

Note: Please read the Notes and Instructions on the last page before completing this application form

A. PERSONAL	
1. First name	
2. Surname	
3. Country	
4. Date of birth (DD/MM/YYYY)	
5. Gender	M / F
6. Passport number	
7. Passport validity (DD/MM/YYYY)	
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

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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
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_____	_____
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. Closing dates for the application dates are published and will be strictly adhered to.
3. You must supply all the information requested, or explain why you cannot provide it.
4. A certified copy of the passport document must be included in the application.
5. Successful candidates will be contacted by phone or email. Make sure that your contact details are correct.