

**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.: 11464/2024-14 MS/ETR

Notre réf.: 11464/2024/MS/ETR/CRS-3324

16 juillet 2024

Annexes: 3 (disponibles en anglais seulement)

Objet: Cours de formation sur la prévision sans discontinuité de la pollution atmosphérique en Afrique (séances en ligne: 12-25 septembre 2024; séances en présentiel: Le Caire, Égypte, 1^{er}-4 octobre 2024)

Suite à donner: Pour information et mesures à prendre, le cas échéant. Les candidatures doivent être reçues au plus tard le **20 août 2024**

Madame, Monsieur,

Un cours de formation complet sur la prévision de la qualité de l'air et son application en Afrique est organisé sous les auspices de l'Organisation météorologique mondiale (OMM). Ce cours de formation inclut des séances tant en ligne qu'en présentiel. **Les séances en ligne auront lieu du 12 au 25 septembre 2024.** Les modules concernés porteront sur une présentation des concepts fondamentaux des processus de qualité de l'air ainsi que sur la modélisation, les observations et les applications dans ce domaine. **Les séances en présentiel se dérouleront dans les locaux de l'Autorité égyptienne de météorologie (EMA), au Caire, du 1^{er} au 4 octobre 2024.** Les modules concernés porteront sur une présentation des grands principes de la modélisation météorologique et de la qualité de l'air pour des applications en Afrique et des produits de données connexes, ainsi que sur les modalités d'utilisation de ces outils à l'aide desdites applications. Le cours vise également à mettre en place et renforcer les capacités africaines locales s'agissant de la prévision de la qualité de l'air et à promouvoir l'utilisation des produits de données. Les participants auront également la possibilité de prendre part à un **atelier scientifique sur la recherche en matière de qualité de l'air en Afrique, qui se tiendra le 30 septembre 2024, parallèlement au cours de formation.**

Ce cours de formation est organisée par le Bureau de l'enseignement et de la formation professionnelle (ETR) de l'OMM, en collaboration avec le Programme mondial de recherche sur le climat (PMRC) et le programme de la Veille de l'atmosphère globale (VAG) de l'OMM, les initiatives PREFIA (Amélioration des prévisions de la qualité de l'air en Afrique) et GAFIS (Système mondial d'information et de prévision concernant la qualité de l'air) de la VAG ainsi que l'Université du Hertfordshire, l'Université de Pretoria, Northeastern University, le service Copernicus de surveillance de l'atmosphère (CAMS) et l'Organisation européenne pour l'exploitation de satellites météorologiques (EUMETSAT).

Nous vous invitons donc à soumettre, pour examen, la candidature d'une personne intéressée et qualifiée. Toutes les demandes seront examinées par l'OMM en collaboration avec l'EMA et les meilleures candidatures seront retenues. Lorsque vous remplirez le formulaire de candidature (voir l'[annexe III](#)), veuillez indiquer les avantages que votre Service compte retirer de la participation de votre candidat à la formation.

Aux: Représentants permanents des Membres du Conseil régional I de l'OMM

cc: Conseillers en hydrologie

Les personnes intéressées de la Région I de l'OMM doivent d'abord poser leur candidature auprès de l'OMM, en envoyant un formulaire de candidature dûment rempli (voir l'[annexe III](#)) et les pièces jointes requises à gaw@wmo.int et tra@wmo.int, au plus tard le **20 août 2024**. L'OMM informera de leur sélection les candidats retenus pour participer aux séances en ligne. L'OMM fera savoir aux personnes choisies pour participer aux séances en présentiel qu'elles ont été retenues et leur communiquera les détails relatifs à leur voyage et des dispositions d'ordre pratique.

Il convient de noter que nous encourageons les Membres à prendre en charge les frais de voyage des participants des séances en présentiel. L'OMM est toutefois disposée à fournir une assistance financière à un participant pour chaque pays Membre sélectionné.

Je saisis cette occasion pour vous assurer de mon engagement sans faille en faveur des activités de renforcement des capacités à l'appui du développement des compétences.

Je vous remercie du soutien que vous apportez à cet égard et vous prie d'agréer, Madame, Monsieur, l'expression de ma considération distinguée.



Celeste Saulo
Secrétaire générale

Training Course on Seamless Prediction of Air Pollution in Africa

Venue: Egyptian Meteorological Authority (EMA), Cairo, Egypt

Ref.: 11464/2024-14 MS/ETR

1	Host Member	Egypt
2	Host institution(s)	Egyptian Meteorological Authority, EMA
3	Website	http://nwp.gov.eg/about.php
4	Location(city) of institution(s)	Cairo, Egypt
5	Address of institution	Koubry El-Quobba, Cairo, Egypt
6	Course type	Online and in person
7	Main course content	<ul style="list-style-type: none"> • Air quality and its impacts on climate and health • Satellite and ground sensors for atmospheric composition • The components of air quality forecasting systems: global vs regional • Air quality evaluation methodologies and the use of daily model diagnostics • Hands-on
8	Duration of study	2 weeks (online) 1 week (in person)
9	Course dates	12–25 September 2024 (online) 1–4 October 2024 (in person)
10	Target region and members	WMO Regional Association I
11	Basic requirements	<ul style="list-style-type: none"> • Good skills in English, written and spoken (language comprehension), • Bachelor's degree or an equivalent level of academic background in atmospheric science, • Familiar with Unix/Linux and proficiency in at least one of the programming languages.
12	Language	English
13	Number of awards	Up to 50 participants (online) Up to 20 participants (in person)
14	Institution application	Mandatory
15	Admission from institution	Mandatory
16	Closing date for applications	WMO: 20 August 2024
17	Contact info	gaw@wmo.int

Training Course on Seamless Prediction of Air Pollution in Africa

Venue: Egyptian Meteorological Authority (EMA), Cairo, Egypt

Ref.: 11464/2024.14 MS/ETR

Course description

A comprehensive training course on air quality prediction and forecasting for implementation in African applications is being organised under the auspices of the World Meteorological Organization (WMO).

This training event is being organised by the WMO Education and Training Office (ETR) in collaboration with the WMO World Climate Research Programme (WCRP), the WMO Global Atmospheric Watch (GAW) programme, GAW's initiatives on Prediction and Forecasting Improvement for Africa (PREFIA) and the Global Air Quality Forecasting and Information System (GAFIS), as well as the University of Hertfordshire, University of Pretoria, Northeastern University, Copernicus Atmosphere Monitoring Service (CAMS) and the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT).

This training course will be conducted both online and in person. **Online sessions will be organised from 12 to 25 September 2024.** The sixteen 90-minute course modules covered during the online webinars will introduce participants to the basic concepts of air quality processes, modelling, observations, and applications. **In-person training will be held at the Egyptian Meteorological Authority (EMA), Cairo, from 1 to 4 October 2024.** The hands-on training modules covered during the in-person sessions will introduce participants to the main principles of air quality and meteorological modelling for African applications and related data products, as well as to the means by which these tools can be implemented using African applications. A further aim of the course is to build and strengthen local capacity in Africa on air quality prediction and forecasting and to promote the use of data products. Participants will also be given an opportunity to take part in a **science workshop on air quality research for Africa that will be held in conjunction with the training course on 30 September 2024.**

Participants are expected to demonstrate satisfactory attendance and progress and a timely and satisfactory completion of online tasks/quizzes as per submission deadlines. It is recommended that all participants bring their own laptop.

Expected Learning outcomes

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

1. Understand the principles of air quality modelling for real applications relevant to Africa as defined by the WMO course outlines and objectives.
2. Be able to use and apply relevant datasets such as remote sensing products and air pollutant emissions.
3. Understand the stages of implementation of the air quality and weather models used during the training course for air quality and climate service applications.

4. Understand the set-up, configuration and operation of models and datasets as well as challenges relevant to African applications.
5. Be able to apply stepwise implementation of the models supported by datasets and analyse and visualize outputs for relevant African applications.

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Competencies attained and certificates issued

Upon the successful completion of the course, the candidates will receive a certificate stating the underpinning skills that support the WMO Competency implementation in the "Satellite Skills and Knowledge for operational meteorologists" framework, which covers parts of Skill 4 'Identify and interpret atmospheric phenomena'. See more information at <https://community.wmo.int/en/wmo-competency-frameworks>.

Target Audience

The primary audience will be meteorologists working in operational NWS from WMO RA I Members, specialized technicians, and students of Master/Ph.D. programmes. Participants should have at least a bachelor's degree or an equivalent level in an academic background in atmospheric science. Forecasters are expected to have at least 2 years work experience, a knowledge of meteorology and a sufficient command of spoken and written English.

Instructors

Trainers from the WMO World Climate Research Programme (WCRP) and Global Atmosphere Watch (GAW) community experts, EUMETSAT and Copernicus will be the instructors of the course. Additional experts will contribute to specific portions/subjects of the course.

Working language

The course will be conducted in English only. No translation service will be available.

Entry requirements

- Some understanding of atmospheric composition and/or air pollution, atmospheric science (and their interactions with meteorology and climate) and atmospheric numerical models;
- Basic computer literacy for online training;
- Should be familiar with Unix/Linux and be proficient in at least one of the programming languages (such as Fortran, C++, Python, MATLAB, or R);
- Good skills in written and spoken English (language comprehension).
- The entry requirements outlined above will need to be verified via the candidate's CV and qualifications.

Work experience

Relevant work experience in atmospheric transport, meteorology/climate, atmospheric composition (i.e. air quality, atmospheric chemistry, wildfires, sand and dust storms), and numerical model prediction and forecasting as well as related datasets is preferred.

Useful resources in preparing for the course

A laptop with a good processor, sufficient memory capacity and storage (external storage is advised).

Application procedure

The application form must include:

- A letter of motivation in English of no more than 200 words;
- A CV;
- Relevant certified qualifications;
- Nomination letter from relevant Permanent Representatives (PR).

All applications will be handled according to general data protection regulations.

Completed application forms should be sent to: gaw@wmo.int with the SUBJECT of the email clearly marked as follows: **PREFIA TRAINING – Egypt 2024**

Application deadline: **20 August 2024**

APPLICATION FORM ([online version](#))

To be completed before 20 August 2024

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Microsoft Forms

**Training Course
on Seamless Prediction of Air Pollution in Africa
Cairo, Egypt**

12 to 26 September 2024 (online) / 1 to 4 October 2024 (in person)

APPLICATION FORM

Ref.: IIA64/2024-14MS/ETR

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, postcode, town)	
10.	Mobile telephone no.	
11.	Email address	
12.	Professional contact Name: Telephone no.(office): Professional links:	
13.	Will you be requesting financial assistance to participate in the course?	Yes/No

Note: Please read the [notes and instructions](#) on the last page before completing this form

B	GENERAL		
1.	Give details of your work experience in meteorology and air quality		
	Name of organisation	Start and end dates	Brief description of role and responsibilities
2.	Write a brief statement setting out clearly why you have chosen this course and how you intend to use it after graduation		
3.	Write a brief statement on any services on air quality forecasting in your country (i.e. operational, under development or none)		

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

Signature

Date

C	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 ensure that the information you provide is accurate.

1. Applications received after 2 September 2024 **will not be considered;**
2. Applications received without the endorsement of the Permanent Representative **will not be considered;**
3. Incomplete application forms **will not be considered;**
4. Closing dates for receipt of applications have been published and will be strictly adhered to;
5. A copy of the passport document must be included in the application;
6. Please ensure that your contact details are correct as successful candidates will be contacted by email.
