

**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.: 08277/2024-1.8 MS/ETR

Notre réf.: 08277/2024/MS/ETR/CRS-1324

21 mai 2024

Annexes: 3 (disponibles en anglais seulement)

Objet: Invitation à l'atelier sur l'assimilation des données en Afrique de l'Ouest

Suite à donner: Pour information et mesure à prendre, le cas échéant

Madame, Monsieur,

Dans le cadre de nos efforts en faveur du développement des capacités, en particulier concernant l'Initiative «Alertes précoces pour tous», nous sommes très heureux de vous annoncer le prochain atelier sur l'assimilation des données en Afrique de l'Ouest, organisé par le Bureau de l'enseignement et de la formation professionnelle de l'OMM, avec l'appui du Centre régional de formation professionnelle de l'Organisation au Nigéria (NiMet). Cet atelier a pour vocation de renforcer les compétences essentielles à la prévision numérique du temps (PNT) en Afrique de l'Ouest, et particulièrement les techniques d'assimilation des données.

Prévu du 22 au 26 juillet 2024, à Abuja (Nigéria), l'atelier comprendra des séances pratiques et manuelles utilisant l'outil Plug-N-Run de PNT ou «PN-Tool», élaboré par le Bureau de l'enseignement et de la formation professionnelle de l'OMM. Les participants pourront y acquérir de précieuses connaissances et des compétences pratiques sur la mise en œuvre des systèmes opérationnels de PNT et l'assimilation des observations locales visant à améliorer la précision des PNT. En outre, ils pourront collaborer avec leurs homologues de toute la région.

Vous trouverez ci-joint des documents détaillés sur les objectifs de l'atelier, son programme et le formulaire de demande pour y participer. Nous sollicitons votre aimable assistance pour diffuser ces informations auprès des parties prenantes concernées au sein de votre organisation et encourager les candidats éligibles à postuler. Les candidats des pays sélectionnés doivent d'abord présenter leur demande à la NiMet et envoyer un formulaire de demande dûment rempli (voir l'[annexe III](#)) avec les pièces jointes requises à Vincent Ezikornwor Weli à l'adresse: v.weli@nimet.gov.ng avec une copie à tra@wmo.int. Seules les personnes avalisées par le Représentant permanent de leur pays peuvent poser leur candidature, au plus tard le **14 juin 2024**.

La sélection des participants se fera par mise en concurrence, la priorité étant accordée aux personnes qui contribuent activement aux activités opérationnelles de PNT. Il convient de noter que nous encourageons les Membres à prendre en charge les frais de voyage de leurs participants. L'OMM est toutefois disposée à fournir une assistance financière à un participant pour chaque pays Membre sélectionné. Les candidats retenus seront informés par la NiMet, puis contactés par l'OMM pour préparer leur voyage.

Aux: Représentants permanents du Conseil régional I (Afrique): Bénin, Burkina Faso, Cabo Verde, Côte d'Ivoire, Gambie, Ghana, Guinée, Guinée Bissau, Libéria, Mali, Niger, Nigéria, Sénégal, Sierra Leone, Togo (distribution restreinte)

cc: Conseillers en hydrologie

Je saisis cette occasion pour vous assurer de mon engagement sans faille en faveur des activités de développement des compétences et de l'Initiative «Alertes précoces pour tous», et vous remercie du soutien que vous apportez à cet égard.

Veuillez agréer, Madame, Monsieur, l'expression de ma considération distinguée.

A handwritten signature in black ink, appearing to be 'Celeste Saulo', written in a cursive style.

Celeste Saulo
Secrétaire générale

**WEST AFRICA DATA ASSIMILATION WORKSHOP
NIGERIAN METEOROLOGICAL AGENCY (NiMET)
ABUJA, NIGERIA**

Ref.: 08277/2024.1.8 MS/ETR

Host Member	Nigeria
Host institution(s)	Nigerian Meteorological Agency
Website	https://nimet.gov.ng/
Location(city) of institution(s)	Abuja, Nigeria
Address of institution	Bill Clinton Drive, Nmandi Azikiwe International Airport, FCT, Abuja
Course type	In-person
Main course content	• Introduction to the PN-Tool • Overview of WRF architecture • Fundamental concepts of data assimilation • Hands-on practice for data assimilation • Implementation of cycling system
Duration of study	5 days
Course dates	22 to 26 July 2024
Target Region and Members	Benin, Burkina Faso, Cabo Verde, Côte d'Ivoire, The Gambia, Ghana, Guinea, Guinea Bissau, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo
Basic requirements	• Understanding of meteorological principles and terminology • Basic knowledge of NWP concepts • Proficiency in Linux commands and programming languages • Experience with NWP software package
Language	English
Number of awards	Up to 16 participants
Application form	Mandatory
Admission from institution	Mandatory
Application closing date	14 June 2024
Contact information	Professor Vincent Ezikornwor Weli (NiMet): v.weli@nimet.gov.ng Copy to tra@wmo.int

**NIGERIAN METEOROLOGICAL AGENCY (NiMET)
ABUJA, NIGERIA**

WEST AFRICA DATA ASSIMILATION WORKSHOP

Ref.: 08277/2024.1.8 MS/ETR

Workshop description

This workshop aims to enhance the capacity of West African countries in high-resolution modelling for the Early Warnings for All initiative. The in-person workshop will focus on hands-on training for NWP implementation and operation. To achieve this, we will utilize the Plug-N-Run NWP Tool (PN-Tool) developed by the WMO Education and Training Office. Using the PN-Tool, participants will directly design and develop operational high-resolution NWP systems for their countries. They will also gain an understanding of the fundamental concepts of data assimilation and skills required to assimilate observational data produced in their respective countries. Upon completion of the workshop, participants will take the PN-Tool back to their countries and utilize it to implement and operate the necessary NWP systems tailored to their specific needs.

Course format

This will be an in-person workshop, and participants are required to bring their own laptops for practical exercises. The workshop will primarily focus on hands-on training using the PN-Tool, an external USB storage device, which contains the Linux OS and a pre-configured WRF system. Participants will have the opportunity to directly build operational NWP systems with data assimilation for their countries during the workshop using PN-Tool.

Expected Learning outcomes

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

1. Enhanced capacity in operational high-resolution modelling system;
2. Practical skills in implementing and operating Numerical Weather Prediction systems;
3. Proficiency in utilizing the PN-Tool for designing and developing operational NWP systems;
4. Deeper understanding of data assimilation concepts;
5. Application of learnt skills to build operational NWP systems with data assimilation tailored to specific requirements.

Competencies attained and certificates issued

Participants who pass the assessment will receive a certificate of "Successfully Completed", while those who do not pass the assessment will receive a certificate of "Participation".

Target audience

Staff members in the National Meteorological and Hydrological Services in West Africa responsible for Numerical Weather Prediction tasks, related duties, or those who will be undertaking such responsibilities in the future.

Instructors

Trainers responsible for NWP-related education and training at the WMO, with experience in high-resolution NWP development, data assimilation development, and relevant educational training.

Working language

The course will be conducted in English.

Entry requirements

- Involvement in Numerical Weather Prediction and related fields
- Good skills in English reading, written and spoken (language comprehension)
- All this needs to be verified by proof of CV and qualifications.

Work experience: Relevant work experience in operational Numerical Weather Prediction system is preferred.

Useful resources in preparing for the course

- Online NWP Training series course
https://www.meted.ucar.edu/education_training/course/21
- WRF User Guide
https://www2.mmm.ucar.edu/wrf/users/docs/user_guide_v4/contents.html
- PN-Tool User Guide
https://docs.google.com/document/d/1Agpabjw5fSUD0EH1Fbmt-xdLXp3s0EOJY_SW0CSyxXs/edit?usp=drive_link

Procedure for application

The applications thus must include:

- A letter of motivation in English limited to 200 words
- A CV
- Relevant certified qualifications
- Signed nomination letter from the relevant Permanent Representative.

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

Application for consideration should be forwarded to:

NiMet

Professor Vincent Ezikornwor Weli v.weli@nimet.gov.ng

Copy to: Education and Training Office tra@wmo.int

Clearly mark the subject of the email as: NiMet – Nigeria – CRS-1324 – West Africa Data Assimilation Workshop.

Deadline for application: **14 June 2024**

Only successful applications will be notified by email by NiMet and WMO.

APPLICATION FORM
WEST AFRICA DATA ASSIMILATION WORKSHOP
ABUJA, NIGERIA
22-26 JULY 2024

Ref.: 08277/2024.1.8 MS/ETR

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	

Ref.: 08277/2024-1.8 MS/ETR

B. 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

C. 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.

Ref.: 08277/2024-18 MS/ETR

1. Applications received after the date of **14 June 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 the application dates are published and will be strictly adhered to;
 5. A copy of the passport must be included in the application;
 6. Successful candidates will be contacted by email. Please ensure that your contact details are correct and clearly written.
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