



# Quarterly

• An internal magazine of Nigerian Meteorological Agency (NiMet) •



A Cross-Section of Dignitaries at the Public Presentation of the 2024 Seasonal Climate Prediction



NiMet's Broadcast Meteorologists shine in their New Branded outfit

## NiMet and NIRSAL Plc to Collaborate and Boost Agricultural Productivity in Nigeria





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*General Manager, Public Relation Unit*

**Elioenai Anzizi**

*ICT Unit/Graphics & Photography*



For editorial and other information:

Inquiries@nimet.gov.ng +234 806 0983636 | +234 8034533111

 @nimetnigeria  officailnimetng

 Nigerian Meteorological Agency - NiMet

  Nigerian Meteorological Agency

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Minister of Aviation and Aerospace Development, Festus Keyamo Esq. (2nd right) toasting with other guests aboard the maiden Airpeace Lagos to London flight.

## Airpeace Airlines CEO Onyema Lauds Aviation Minister Keyamo's Contributions in Advancing the Development of the Aviation Sector

By Gbenga Saka

Allen Onyema, the CEO of Air Peace, made notable comments during his recent interview with Arise TV, specifically lauding the contributions of the Honorable Minister of Aviation and Aerospace Development, Festus Keyamo SAN, CON, in advancing the aviation sector in Nigeria. Onyema's praises focused on the exceptional support the Minister has provided, particularly in the successful launch and operation of Air Peace's Lagos-to-London flight service. Onyema noted the Minister's considerable efforts in backing not just Air Peace but the local airline industry as a whole, which is a crucial sector for Nigeria's economic development and international connectivity.

One of the key highlights from Onyema's discussion was the emphasis on the Minister's proactive measures

to foster growth and support within the aviation sector. This includes the initiative to enhance operational capabilities, regulatory support, and infrastructural improvements that directly benefit airlines operating within and outside Nigeria. Underlining these efforts was the mention of the Minister's recent trip to France, which was aimed at facilitating and smoothing out lease agreements for Nigerian airlines. Such diplomatic and strategic efforts by a Minister underscore the Federal Government's commitment to aiding its aviation sector in competing globally, reducing operational costs, and ensuring the sustainability of air services.

Onyema's acknowledgment of these efforts is particularly noteworthy in the context of the aviation industry's complexities, especially regarding

especially regarding international operations and aircraft leasing challenges. The Minister's engagement in solving these crucial issues demonstrates a forward-thinking approach to not merely addressing immediate concerns but also laying down a robust foundation for future growth and competitiveness of the Nigerian aviation industry on the global stage.

This collaborative stance between the government and private sector players such as Air Peace is a positive signal towards the sustainable development of the aviation industry in Nigeria. It reflects a mutual understanding of the strategic importance of aviation in fostering economic growth, enhancing connectivity, and promoting Nigeria as a key player in the international aviation community.

Gbenga Saka is S.A. Digital Media to the Hon. Minister of Aviation and Aerospace Development



# NiMet DG/CEO Anosike Harps On Improved Service Delivery At Management Retreat



The Director General and Chief Executive Officer of the Nigerian Meteorological Agency (NiMet) has said that the focus of the new management is to strengthen the operations of the agency and reposition it for improved service delivery.

Professor Anosike was speaking on Monday, 8th January, 2024, while declaring open a 3-day NiMet management retreat in Abuja.

“The overriding objective of the 2024 NiMet management retreat is to strengthen collaborative relationships amongst staff of the agency. It’s time to dismantle the imaginary walls and silos built internally over the years which has been stifling productivity. The retreat will give us all a good understanding of the work NiMet does. The science of meteorology should be treated and handled with all seriousness because of its importance and impact on lives, properties and on the economy”.

Continuing, Professor Anosike encouraged the participants to be active during the retreat and make contributions that will help NiMet to achieve its mandate efficiently. “Despite prevailing economic challenges, there are opportunities in the external environment for NiMet. We should aim to reduce wastages in our operations, prioritize spending, and improve our internally generated revenue”.

Concluding, Professor Anosike reminded the participants that although NiMet’s services are directly related to weather and climate in Nigeria, however, forces that drive environmental changes have shown that NiMet’s activities impact all aspects of the Nigerian economy”.





# Photo Splash

2024 Public Presentation of SCP  
at NAF Centre, Abuja, on Tuesday, 20th February, 2024.





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# NiMet Presents Seasonal Climate Prediction (SCP), Predicts Early Rains In Borno, Abia, Akwa Ibom

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The Nigerian Meteorological Agency (NiMet) on Tuesday, 20th February, 2024, presented the 2024 Seasonal Climate Prediction (SCP) in Abuja.

The forecasts released indicate that rains will be delayed in some parts of the country. According to NiMet, the states of Borno, Abia and Akwa Ibom would witness early onset.

The 2024 Seasonal Climate Prediction which was unveiled by the Minister of Aviation and Aerospace Development, Mr Festus Keyamo, SAN, was themed: 'Facilitating a Weather Resilient Economy Through Early Warnings for all to Foster Renewed Hope and Sustainable Development'.

☒An early end of the rainy season is predicted for parts of Yobe, Jigawa, Sokoto, Kebbi, Kano, Kaduna, Plateau, Nasarawa, Taraba, Home, Bauchi, Cross River Ebony, Ogun and Lagos states.

A late cessation is predicted over the southern states of Bayelsa, Rivers, Akwa Ibom, Ondo, Ekiti and some parts of Delta, Ogun, Oyo, Kogi, Kwara, FCT, Niger and Kaduna.

The minister disclosed that the document also contains detailed prediction for temperature in the first five months of the year, predictions for the dry spell and little dry season, as well as prediction for Malaria and Meningitis.

"The annual rainfall amount is predicted to be below normal over parts of Yobe, Jigawa, Bauchi, Kano, Kebbi, Gombe, Plateau, Taraba, Nasarawa, Benue, Enugu, Ebonyi, Cross River, Delta and Bayelsa states when compared to their long term normal.

" However, other parts of the country are likely to observe normal to above-normal annual rainfall amounts.

Most parts of the country are expected to experience a shorter length of season, however, Bayelsa, Rivers, and Akwa-Ibom are likely to experience a longer length of season when compared with their mean. Normal to shorter length of season will likely occur in other parts of the country."

The Minister said the 2024 SCP has been summarised for policy makers and translated into Hausa, Igbo, Yoruba and Pidgin languages.

"As the highly anticipated 2024 Seasonal Rainfall Prediction is released today, I strongly encourage all stakeholders to evaluate the predictions thoroughly and strategically, to build adaptive capacity and resilience against climate variability within your respective sectors.

"It is my desire that the content of the document enables policymakers to plan activities, allocate resources effectively, and protect our citizens from the adverse impacts of weather".





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The Special Guest of Honour, and former President, Chief Olusegun Obasanjo who spoke virtually said the two critical issues facing the country are climate change and Food crisis. He stressed the importance paying heed to NiMet's prediction.

The Permanent Secretary of the Ministry of Aviation and Aerospace Development, Mr Emmanuel Meribole in his welcome address said; “Over the years, we have witnessed changing climatic patterns, extreme weather events, and attendant disastrous impacts to lives, property, and livelihoods. These emphasize the critical significance of our gathering here today”.

The Director General and Chief Executive Officer of NiMet, Prof. Charles Anosike said that the agency has consistently demonstrated unwavering commitment to excellence by delivering its annual Seasonal Climate Prediction (SCP) early in the year “This tradition highlights the vital role accurate weather prediction plays in our collective well-being as a nation,” he said.

For more on NiMet's Seasonal Climate Prediction, visit [www.nimet.gov.ng](http://www.nimet.gov.ng).







**KEYNOTE ADDRESS BY THE HONOURABLE  
MINISTER, FEDERAL MINISTRY OF AVIATION AND  
AEROSPACE DEVELOPMENT, FESTUS  
KEYAMO | SAN, CON. FCIArb (UK)**

**AT THE PUBLIC PRESENTATION OF THE 2024  
SEASONAL CLIMATE PREDICTION (SCP), ON  
20TH FEBRUARY 2024 AT THE NAF CONFERENCE  
CENTRE, ABUJA.**



It is a great pleasure for me to address you on this occasion of the Public Presentation of the 2024 Seasonal Climate Prediction (SCP) and the unveiling of the various related publications.

2. The Annual Seasonal Climate Prediction (SCP) document is one of the flagship products of the Nigerian Meteorological Agency, providing critical information to help guide decision-making across all sectors of our economy. As we are all aware, weather and climate have profound effects on aviation, agriculture, maritime and blue economy, water resources, natural resources, energy, disaster risk management, infrastructure investments, among others. Reliable meteorological information is therefore essential for supporting food security, reducing risks, improving livelihoods, and building resilience against the vagaries of weather.

3. The SCP contains essential information such as the predicted start and end dates of the growing season, the length of the growing season, the expected amount of annual rainfall, the temperature forecast, malaria and meningitis vigilance and the forecast for dry spells and little dry season. It also includes socio-economic implications of the prediction. Thus, enabling individuals, businesses, and governments to plan holistically for the future.

4. In the face of the global climate crisis, the work of NiMet has become increasingly crucial. Our ability to adapt and mitigate the impacts of climate change rests on the foundation of accurate predictions and informed decision-making. The SCP which is a tool of commitment to excellence in climate science emphasizes the Agency's dedication to ensuring the resilience and sustainable development of our dear nation.

5. Our climate is a complex and dynamic system, affecting everything from agriculture to transportation, energy production, water use and management, including disaster preparedness. Recent years have seen increased frequency in extreme weather and climate events. The World Meteorological Organization has unequivocally affirmed that 2023 stands as the hottest year ever documented, surpassing all previous records by a considerable margin. The global average temperature for the year perilously approached a worrisome 1.5°C above pre-industrial benchmarks. This alarming reality signifies a critical moment, particularly considering the Paris Agreement's aim to limit long-term temperature increase to no more than 1.5°C above pre-industrial levels.

6. In Nigeria, the temperature record for 2023 was just 0.1 degree Celsius behind 2021 which is the warmest

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year in Nigeria since 1981. The official confirmation of the current breaking of heat records serves as a stark reminder of the urgent need for heightened global and local initiatives to address the escalating climate emergency. Therefore, the work done by the Nigerian Meteorological Agency (NiMet) is invaluable, providing us with insights into upcoming weather patterns, extreme events, and long-term trends.

7. Our changing climate has had a significant impact on food security globally. The recent COP28 in Dubai, UAE, identified the challenge of food security as one of the greatest threats of climate change to humanity. About 159 participating countries adopted a declaration and commitment to make the global food system more sustainable, climate resilient, and secure by assisting vulnerable people with sustainable water management and climate action strategies. The launch of the 2024 Seasonal Climate Prediction today signifies an important contribution to our journey towards a more resilient and sustainable future.

8. Ladies and Gentlemen,

As the Minister of Aviation and Aerospace Development, I fully understand the impacts of weather on the aviation industry. Flight safety and efficient air transport operations are hugely dependent on accurate weather forecasts, advisories, and early warnings. Through continuous investments in meteorological weather stations, satellite data, and Numerical Weather Prediction (NWP), NiMet has continued to enhance aviation-specific weather services. The aviation industry looks forward to continued collaboration with NiMet and the meteorological community, to utilize weather information for planning flight operations, aircraft routing, and scheduling among other applications.

9. Rainfall patterns in West Africa are closely linked to changes in the Sea Surface Temperature (SST) over the tropical Pacific Ocean. This means that accurate

rainfall predictions for Nigeria depend on the complex interactions between the atmosphere and the ocean. The 2024 Seasonal Climate Prediction (SCP) uses a standard approach that considers the teleconnection between the SST anomalies in both the Pacific and Atlantic Oceans and the rainfall regime over Nigeria. The predictions in this edition of the SCP were based on a strong El Niño phase of the El Niño Southern Oscillation (ENSO) in the first half of 2024, and the projection that the Neutral phase will most likely persist for the later part of the year.

10. As we delve into the details of the Seasonal Climate Predictions today, let us not only see them as scientific projections but as a call to action. The insights provided by NiMet should inspire collaboration among government agencies, private sectors, non-governmental organisations, and communities to collectively build a climate-resilient nation. Without further ado, let me provide you with a summary of the expectations for this year.

Highlights of the 2024 SCP

11. The 2024 onset of rains is predicted to be delayed in some parts of the country, especially the North Central states of the country. A normal onset is likely to occur over the northern states. Borno, Abia, and Akwa Ibom states are predicted to have an early onset when compared to their long-term averages.

An early end of the season is predicted for parts of Yobe, Jigawa, Sokoto, Kebbi, Kano, Kaduna, Plateau, Nasarawa, Taraba, Gombe, Bauchi, Cross River, Ebonyi, Ogun, and Lagos states. However, a late cessation is predicted over the southern states of Bayelsa, Rivers, Akwa Ibom, Ondo, Ekiti, and parts of Edo, Delta, Ogun, Oyo, Kogi, Kwara, FCT, Niger, and Kaduna.

The annual rainfall amount is predicted to be below normal over parts of Yobe, Jigawa, Bauchi, Kano, Kebbi, Gombe, Plateau, Taraba, Nasarawa, Benue, Enugu, Ebonyi, Cross River, Delta and Bayelsa states when compared to their long term normal. However, other parts of the country are likely to observe normal



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to above-normal annual rainfall amounts. Most parts of the country are expected to experience a shorter length of season, however, Bayelsa, Rivers, and Akwa-Ibom are likely to experience a longer length of season when compared with their mean. Normal to shorter length of season will likely occur in other parts of the country.

The document also contains detailed prediction for temperature in the first five months of the year, predictions for the dry spell and little dry season, as well as prediction for Malaria and Meningitis. These predictions are accompanied by explicit details, especially focusing on the socio-economic implications associated with each projection.

12. As the highly anticipated 2024 Seasonal Rainfall Prediction is released today, I strongly encourage all stakeholders to evaluate the predictions thoroughly and strategically, to build adaptive capacity and resilience against climate variability within your respective sectors. It is my desire that the content of the document enables policymakers to plan activities, allocate resources effectively, and protect our citizens from the adverse impacts of weather.

13. Therefore, as we gather here today, we know the important role of accurate and timely climate predictions in shaping our preparedness and responses to ever-changing weather events. The information we are about to unveil today represents a roadmap for our communities, businesses, and policymakers to navigate the upcoming 2024 seasons. This is in support of the Renewed Hope Agenda of the President and Commander-in-Chief of the Armed Forces, Federal Republic of Nigeria, President Bola Ahmed Tinubu.

14. Distinguished Guests and Members of the Press, While we unveiled the 2024 SCP today, may I inform you that the document has been summarised for Policy Makers, and translated into Hausa, Igbo,

Yoruba, and Pidgin to promote wide uptake of the information and increase access to the critical climate information for all. NiMet also prepares a research document annually which details the climatic situation of the country in the preceding year. The 2023 version is available today as the 2023 State of the Climate Report in Nigeria.

15. My commendation goes to the Management and staff of NiMet for their unwavering commitment to advancing our understanding of weather and climate patterns. Their dedication to research and innovation has continually empowered the Government at all levels to make proactive decisions that safeguard our environment and the well-being of every Nigerian.

16. May these predictions guide us towards a future of sustainable and adaptive practices. Thank you and God bless the Federal Republic of Nigeria.



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## FINAL REMARKS BY THE DIRECTOR GENERAL/CEO & PERMANENT REPRESENTATIVE OF NIGERIA WITH WMO, PROFESSOR CHARLES ANOSIKE

### AT THE PUBLIC PRESENTATION OF THE 2024 SEASONAL CLIMATE PREDICTION (SCP), ON 20TH FEBRUARY 2024 AT THE NAF CONFERENCE CENTRE, ABUJA



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Good afternoon distinguished guests,

On behalf of the Honourable Minister of Aviation and Aerospace Development, the Permanent Secretary, the Management and Staff of the Nigerian Meteorological Agency (NiMet), I wish to gladly thank everyone gathered here today for honouring our invitation.

2. The Agency has consistently demonstrated an unwavering commitment to excellence by delivering its annual Seasonal Climate Prediction (SCP) early in the year. This tradition highlights the vital role accurate weather prediction plays in our collective well-being as a nation. Your attendance here today gives a greater significance to this occasion, and I am grateful for your effective participation.

3. Firstly, I would like to express our appreciation most sincerely to our Chief Host, the Honourable Minister of Aviation and Aerospace Development, Festus Keyamo (SAN), and the entire ministry. Your unwavering support, exemplary leadership, and encouraging guidance have played an indispensable role in ensuring the success of the Public Presentation of the 2024 Seasonal Climate Prediction. Without your support, Sir, this achievement would not have been possible.

4. Our utmost gratitude also goes to our Special Guest of Honour-former President of Nigeria, the Members of the Senate, and House of Representatives, Excellencies-Governors, for finding time to grace this occasion despite your tight schedules.

Honourable Ministers and their representatives here present, Permanent Secretaries of Ministries, Chiefs of Military and Paramilitary outfits: I would like to say thank you for your support and contributions.

5. My deepest appreciation to our sister Agencies in the Federal Ministry of Aviation and Aerospace Development, MD FAAN, Ag. DGCA NCAA, MD NAMA, Rector/CE NCAT, DG NSIB, and the various stakeholders in the industry for your unwavering support and cooperation. Our partners from NEMA, NIHSA, NIMASA, NPA, FERMA, and other very important MDAs, we appreciate your continuous collaboration with us. Our numerous partners and collaborators across development partners, Academia, Research Institutes, private sector, NGOs, etc. our services would not be complete without your input. We thank you for your support and feedback, especially in the co-production process of this very important national document.

6. To all our honoured guests, thank you for answering our call to participate in this momentous occasion. Your presence demonstrates a shared understanding of the essential role reliable climate prediction plays in supporting agriculture, water resources, disaster risk reduction, and indeed all sectors of the economy. We are grateful for your solidarity and sup-



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port.

7. Before I close this remark, let me reiterate the critical importance of improved weather, water and climate information, products, and services for a Climate-Resilient Economy. These encompasses historical data, nowcasting, short and medium range forecasts, sub-seasonal to seasonal predictions, annual to multiannual and decadal projections. This information is fundamental for resource planning, routine operations, maintenance work management, disaster risk reduction and investment planning systems.

8. I will encourage everyone to take all these predictions, disseminate them and make timely and positive use of them in our various sectors. This is Our Commitment to 'Facilitating a weather-resilient economy through early warnings for all to foster renewed hope and sustainable development'. This should be at the forefront of our planning and economic agenda.

9. Special thanks also go to our partners in progress; and members of the Press for your cooperation and coverage of this event and other NiMet Programs and Activities.

10. I recognize the hard work and dedication of our team of meteorologists. It is through their expertise and commitment to excellence that NiMet can deliver accurate and life-saving weather forecasts to the people of Nigeria. Please join me in appreciating their efforts. And to the entire NiMet staff especially the various committees that have worked assiduously for the success of this event, I want to assure you that your dedication, sacrifices, and labour from the inception to the production of this highly valuable document are highly appreciated. I want to say, 'job well done'.

11. Thank you to everyone who made it here today, overcoming significant constraints. Your presence is truly appreciated. Wishing each of you a safe journey back to your respective destinations





# NiMet And NIRSAL Plc To Collaborate and Boost Agricultural Productivity In Nigeria



Prof. Charles Anosike DG/CEO NiMet and Mr. Abbas Umar Masanawa, OON MD NIRSAL



The Nigerian Meteorological Agency (NiMet), and the Nigeria Incentive-Based Risk Sharing System for Agricultural Lending (NIRSAL Plc) have announced that they will collaborate on several projects to boost agricultural productivity in Nigeria.

This followed a meeting in Abuja on Wednesday, 14th February, 2024, at NIRSAL Plc's headquarters, between the Director General and Chief Executive Officer of NiMet, Professor Charles Anosike, and the Managing Director and Chief Executive Officer of NIRSAL, Abbas Umar Masanawa, OON.

While speaking at the meeting, Professor Anosike said; "The urgency of climate action requires that critical stakeholders collaborate, invest in preparedness and ensure that smallholder farmers are protected by early warnings of climate disaster. NiMet is keen on exploring opportunities for both NiMet and NIRSAL to partner in de-risking agriculture. With the work that NiMet does and the data it generates on a daily basis, this will help farmers to plan effectively and efficiently".

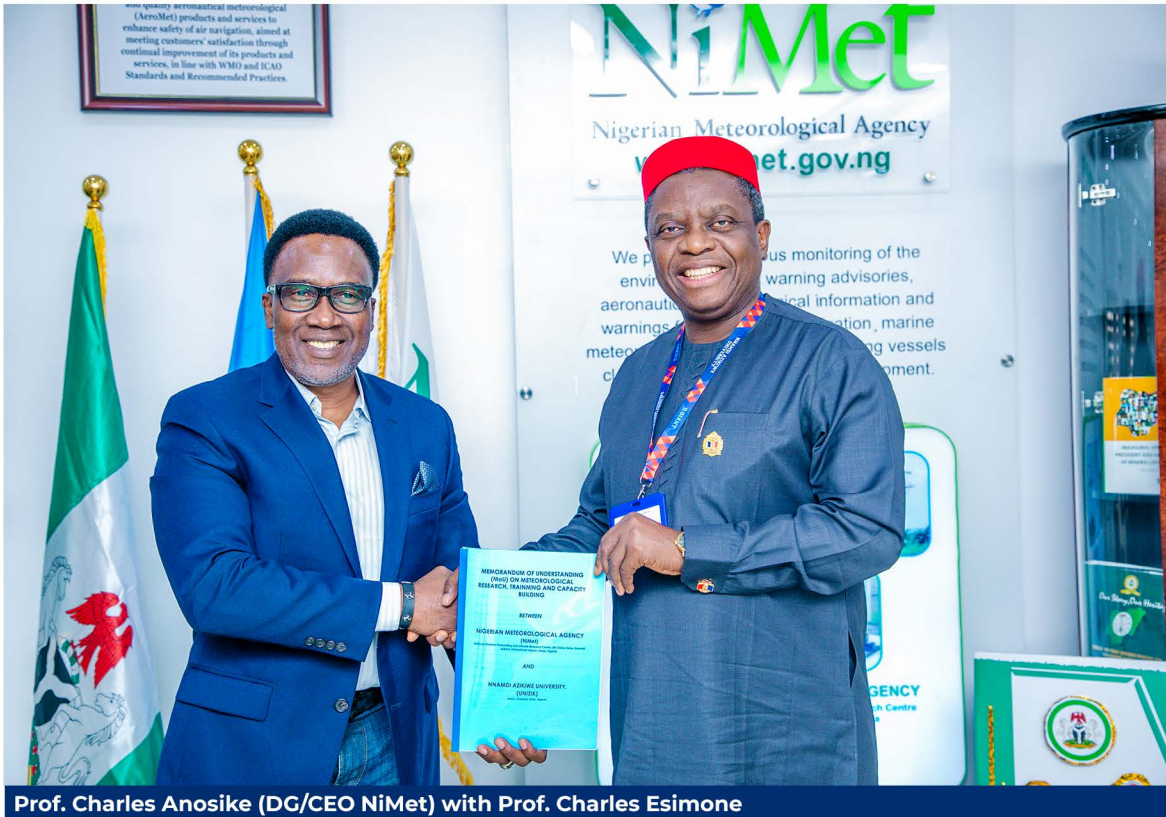
Concluding, Professor Anosike said; "Climate change impacts greatly on farming activities and agricultural yield, hence the need for data-driven farming operations. This will help to de-risk the agricultural value chain".

While welcoming the NiMet team led by Professor Anosike to NIRSAL, the Managing Director/CEO, Abbas Umar Masanawa, OON, said that NiMet has done well over the years not only in the aviation sector but also in the other economic sectors including agriculture. "The DG/CEO of NiMet, Professor Charles Anosike and his team have been doing very well not only in aviation but in agriculture as well. NIRSAL is interested in collaborating with them to support small holder farmers for increased productivity. This is in line with NIRSAL's mandate".

Masanawa said that collaborating with NiMet is critical as the focus will be on increasing primary production. "This will be beneficial to all as the farmers are the ones that are most vulnerable. We are also happy that NiMet downscales its weather and climate data and information in different local Nigerian languages for wider reach and understanding".



# NiMet And Unizik Sign MoU to Build Weather Station



Nigerian Meteorological Agency (NiMet) and Nnamdi Azikiwe University (Unizik) on Friday, 12th January, 2024, signed a memorandum of understanding (MoU) to build a weather station in the university.

Professor Charles Esimone signed on behalf of the Governing Council of Unizik while Professor Charles Anosike signed on behalf of NiMet.

Speaking at the MoU signing ceremony, Professor Anosike charged the Management of Unizik to take leadership in downscaling NiMet's annually issued Seasonal Climate Prediction (SCP) to farmers and other users in

Anambra state and beyond.

"The MoU signed with Unizik to partner in building a weather station in the university is a big achievement for NiMet as the partnership will ensure that farmers and other users receive timely weather and climate information", Professor Anosike said. He thanked Professor Esimone for the commitment shown in signing the MoU on behalf of Unizik, as it shows the importance the university attaches to weather and climate information.

In his response, Prof Esimone thanked Professor Anosike for the opportunity

to collaborate with NiMet. "I am promising NiMet that Unizik will play its part in fulfilling the terms of the MoU which is a landmark accomplishment. Not only our local farmers, but our students, lecturers and researchers will benefit from this relationship especially in the areas of information on climate prediction and climate change". "Unizik will match the financial commitments of NiMet to the project by two because weather and climate information is critical to economic development".

"We will also involve our Centre for Community Development (CCD) with



this project so that we can improve on farmer education. NiMet should also consider training relevant Unizik staff to help sustain the terms of the MoU", he concluded.

Professor Esimone was accompanied by

Professor Ifeanyi Christian Enete of the Department of Geography and Meteorology, Faculty of Environmental Sciences, while Directors of NiMet also witnessed the signing of the MoU.







The Nigerian Meteorological Agency (NIMET) is partnering Bells University Of Technology, Ota, Ogun state, in building a weather station in the university.

Signing a memorandum of understanding (MoU) on Thursday, 18th January, 2024, the Director General and Chief Executive Officer of NiMet, Prof. Charles Anosike DBA FNIM FSM FCMi GPM expressed happiness that the relationship with Bells University which began in 2008 was continuing. According to him, “The choice of Bells University of Technology is strategic as it will help in downscaling NiMet data to farmers in the state and beyond”.

Continuing, Professor Anosike said; “Former President Olusegun Obasanjo has been a friend of NiMet for many years. He has interests in farming in the state and beyond, and has been a champion of weather and climate change. We are happy that he has indicated interest to attend the 2024 NiMet’s Seasonal Climate Prediction (SCP) public presentation holding on the 20th of

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*I have planted three and half million trees so far but my target is to plant five million. We all should do our bit to protect our environment and climate*

*Former President Olusegun Obasanjo*

February, 2024”.

“The MoU with Bells University will open other areas of partnership opportunities that will be mutually beneficial and contribute to economic development.

As NiMet partners with other universities, we want them to show more commitment by transmitting back data to NiMet timely so that we can archive the data. Because of the commitment demonstrated by Bells University and President Obasanjo, NiMet will build a full weather station at Bells University. I am charging them when the station becomes operational, to measure



impact of the data from the weather station on farmers' activities and the economy as a whole", Prof. Anosike concluded.

In his remarks, the Vice Chancellor of Bells University of Technology, Prof. Jeremiah Oludele Ojediran said that former President Olusegun Obasanjo is keen to see that the partnership between the university and NiMet blossoms.

"We want to go beyond building a weather station and do more with NiMet in the area of research into climate change and training of farmers. I look back in time and I remember Operation Feed the Nation (OFN) but climate change is impacting negatively on activities of farmers these days, hence the need for research using the data from the proposed weather station which will be applied in the area of agriculture and other sectors".

Former President, Olusegun Obasanjo, who called in during the signing of the MoU said he was committed to partnering NiMet to promote climate change.

"I have planted three and half million trees so far but my target is to plant five million. We all should do our bit to protect our environment and climate", President Obasanjo said.



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# The Interview

Desmond Onyilo of Weather Forecasting Service (WFS) speaks on being a Broadcast Meteorologist



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## Educational Background

I studied Geography at Ahmadu Bello University Zaria and obtained a Bachelor of Science degree. I have a Post- Graduate Diploma in Meteorology from Enugu State University of Science and Technology Agbani, and an M.Sc. in Climatology from Benue State University, Makurdi.

I was employed at NiMet in December 2004, but resumed duty in January 2005.

## Working At NiMet

Working at NiMet has been a ball for lack of a better phrase. Meteorology is a field that until recent time, hasn't been that known in our clime. People look at me as though I am from outer space when I tell them that I am a meteorologist. Many bite their tongue to even pronounce the name- Meteorology. Meteorology is a very interesting field. I met great minds during my training at the NiMet Regional Training Institute at Oshodi, Lagos. The terms, the phenomenon, and the events, meteorology is interesting.

As a meteorologist, you eat, drink breathe, live meteorology. You observe the weather at all times. I recall back then in Lagos, I could tell if it would rain between late night and the next morning by just looking up at the sky.

You would see moist south-westerly winds coming inland from the Atlantic Ocean as low level clouds. The ability to rightly forecast a rainfall event was gratifying and satisfying.

Your family members automatically become weather observers; they share your passion, and they tell you what the weather is like back home or in the village where you are from. They give you feedback on weather events, be it rain, dust haze, cool or high temperatures..

## Becoming A Broadcast Meteorologist

Continuity is key in every field. When we came in, I was posted to the Central Forecast Office (CFO), where the broadcast meteorologists are domiciled. New hands were needed and so we were called on board to try for the position. Not all of us made it. I guess some were born for the screen, while others are not.

## Skills Required To Become A Broadcast Meteorologist

Confidence!!! It's one of the greatest skills. When you go on air to tell the public that it will rain, the way you say it matters a lot. You could be saying it will rain over the Federal Capital Territory (FCT) the next day, but your body language and the way you convey the message may not agree with what you are saying. Your confidence level alone can convince your viewers of the forecast you are presenting.



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On-air presence is another important skill. Ability to carry your viewers along is also important. By this I mean; telling people it will rain over the southwest and you are able to draw their attention to that southwest by your movement and pointing to the screen so they can see and visualize what you are talking about. You must also be passionate about the work, it's very key.

### **Challenges Being A Broadcast Meteorologist**

There are challenges in every field. If you are not someone who likes attention, broadcasting will put you in the spotlight. People look at you and wonder, 'don't I know you?'. Others will say, 'I know you from somewhere'. There are people who may feel that you are a snob, that you should know them, so why are you acting like a celebrity? That can become an issue. Also, mates from way back and others may feel that you have money. They reach out and believe you should have more than enough to give them. You face the challenge of either being real or fake it, trying to live a life that is not real.

On the Job, you keep trying to beat your last performance, you keep learning on the job. Presentation can get monotonous if you are not careful, people can get used to your lines and be able to predict your presentation.

I as a person watch out for that. I try as much as possible to ensure that people can't predict how my lines will go.

### **The New Branded Broadcast Meteorologists Uniform**

They are beautiful. A great concept from the DG and CEO of Niamey, Prof. Charles Anosike. It brings a touch of class and professionalism to broadcast meteorology.

### **Suggestion To Management**

Broadcast meteorology is an interesting field of meteorology. You get the opportunity to learn and also educate people. As a climate communicator, the onus is on you to infuse into your presentation an educative angle to enlighten and point people to the effects of global warming and climate change.

Broadcast meteorologists are recognized and given a place in all Conference of the Parties (COP) meetings of World Meteorological Organization (WMO). It would be good if NiMet broadcast meteorologists can get sponsorship so that our presentations can be aired on many other notable TV stations across the country.





# NiMet Broadcast Meteorologists Shine in their New Branded Uniforms



L-R: Paul Ugbah, Desmond Onyilo, Suleiman Gurin

You may have noticed the new look of Broadcast meteorologists of the Nigerian Meteorological Agency (NiMet) in their branded new jackets.

Yes, those lovely jackets are the brain-child of the Director General and Chief Executive Officer of NiMet, Professor Charles Anosike, who introduced the jackets in February 2024.

The broadcast meteorologists love them. We love them, and hopefully you, the viewer love them too.

It's all part of the rebranding and repositioning going on at NiMet.

More beautiful things and changes are on the way.



L-R: Joyce Machoko-Ogunleye, Linda Nwachukwu, Helen Taidi Boye, Safiya Hassan Yunusa, Ese Sampson Theodora Etim





# Aviation Sector **News**



Captain Chris Najomo Director General Nigeria Civil Aviation Authority (NCAA)

## NCAA Sets Up 10-Man Committee To Look Into High Airfares

By Chukwuemeke Iwelunmo

In a move to halt the spiralling cost of air tickets in the country and make travelling affordable for Nigerians, the Director General of the Nigeria Civil Aviation Authority (NCAA) Captain Chris Najomo, has set up a 10-man Committee to look into the high cost of tickets in the country.

The Committee is coming on the heels of a two-day high-level meeting held between NCAA and foreign airlines in Nigeria on the urgent need to unblock all low inventory tickets which were hitherto blocked for over 18 months

The 10-man committee chaired by Director of Special Duties NCAA, Mr Horatius Egua is charged with the

responsibility of ensuring that the foreign airlines fully comply with the directives of the government to unblock all low inventory tickets as well as recommend appropriate pricing of tickets in Nigeria compared to similar markets in the West African sub-region.

Other members of the committee are Mr Michael Achimugu, Director of Public Affairs and Consumer Protection NCAA; Mr Rotimi Arogunjo General Manager (GM) Licensing and Statistics NCAA; Mrs Ogechi Louis-Azode Deputy General Manager (DGM) Legal Services NCAA; Mrs. Susan Akporiaye President National Association of Nigerian Travel Agencies (NANTA);

Mrs. Olaoluwa Oladipupo Assistant General Manager (AGM) Fairs and Tariffs NCAA; Mr. David-Ojuigo Asst. Director FCCPC; Mr Yinka Folami incoming President NANTA; and Ms Florence Abebe Chief Legal Officer FCCPC while Mrs Ifueko Abdulmalik, Senior Special Assistant (SSA) DG NCAA is to serve as Secretary,

In the last several months, Nigerians have been made to pay higher fares on international flights unjustly as all the foreign airlines increased their flight tickets astronomically citing the high exchange rate as well as other sundry issues and also deliberately blocked low inventory tickets making travel unbearable for Nigerians.

"This is very discriminatory. We cannot continue to pay higher fares compared to other countries in the sub-region that have similar distances, using the same operating aircraft. We have the market and in some cases, we have more liberal taxes. This is unacceptable and we reject this," Egua who represented Najomo at the meeting held between February 12 and 13, 2024, in Abuja, said.

"For instance, a distance of six hours from Ghana to London may sometimes cost about \$800 while a similar distance with similar operating aircraft costs over \$2000 in Nigeria.

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This is discriminatory and an unfair practice and we reject this in totality,” he further stated.

The NCAA, following the outcry by Nigerians over the astronomical increase in air tickets, convened the two-day meeting with the foreign airlines operating in Nigeria.

The meeting which was held at the headquarters of the NCAA, in Abuja, had in attendance representatives from the NCAA, the Federal Competition and Consumer Protection Commission (FCCPC), and the National Association of Nigerian Travel Agencies (NANTA) while the International Air Transport Association (IATA) made a presentation on behalf of foreign airlines.

Rising from the meeting the Authority expressed strong reservations over the high cost of fares and discriminatory practices against Nigerians by the foreign airlines and called for immediate reversal of the trend.

One of the key resolutions at the end of the meeting between the Authority, FCCPC, NANTA and the foreign airlines was for the reduction in the cost of tickets and for the airlines to unconditionally unblock all lower inventory tickets to the Nigerian market.

Source: Daily Times

Image Source: Freepik.com





Mrs Olubunmi Kuku Managing Director Federal Airports Authority of Nigeria (FAAN)

## We're Tackling Infrastructural Decay At Airports – FAAN MD

By Abdullateef Aliyu

Managing Director/Chief Executive of the Federal Airports Authority of Nigeria (FAAN), Mrs Olubunmi Kuku, has said the authority is tackling infrastructure decay at its airports across the country.

Kuku acknowledged that there is a huge infrastructure gap and assured that the authority under leadership would give the best to Nigerians.

Daily Trust reports that the FAAN MD marked 100 days in office as the helmsman of the airport authority. Speaking with our correspondent at the Murtala Muhammed International Airport (MMIA) terminal two in Lagos during the inaugural flight of Air Peace to London, the MD said her experience on the job has been “pretty sweet.”

She said the feedback from Nigerians has been helpful in guiding the management's decision and actions. She said, “As you know we have quite a lot that we need to do in the sector. There is a huge infrastructure decay but we would take it a day at a time. “We are actually pleading with Nigerians to please work with us because we would make sure that the right things are happening.”

She stated that the management is working to make all its facilities available for people with reduced mobility or disability.

It would be recalled that FAAN had shut an outlet of a fast food restaurant, KFC, at the airport for discriminating against a passenger with reduced mobility.

FAAN had asked the outlet to apologise to the passenger and commit to a non-discriminatory policy against persons with disability.

In return, KFC had apologised on social media and insisted that the incident does not represent his policy as a brand.

Source: Daily Trust



Engr. Umar Farouk MD Nigerian Airspace Management Agency (NAMA)

## NAMA Strengthens Partnership With Air Force to Enhance Airspace Safety

The Nigerian Airspace Management Agency (NAMA) is strengthening its collaboration with the Nigerian Air Force to bolster airspace management and air security across Nigeria.

NAMA Managing Director Engineer Umar Farouk said this when he visited the Chief of Air Staff, Air Marshal Hassan Abubakar at the Nigerian Air Force Headquarters in Abuja on Thursday, according to a statement by the agency's spokesperson, Abdullahi Musa.

According to Musa, Engr. Farouk affirmed the ongoing partnership between NAMA and the Nigerian Air Force and acknowledged the critical role the Air Force plays in safeguarding Nigeria's airspace.

The NAMA boss is, however, eager to explore new avenues for mutual benefit, a desire he expressed during the visit.

He emphasised that strengthened collaboration between the two entities was crucial to enhancing airspace management, safety, and security nationwide.

On his part, Air Marshal Hassan underscored the importance of maintaining a steadfast commitment to

the partnership, and its significant impact on the safety and efficiency of Nigeria's aviation sector.

He also sought NAMA's cooperation in achieving the final accreditation of the Air Traffic School Training Centre (ATSTC) in Kaduna.

The accreditation, he explained, would contribute significantly to bolstering manpower and capacity within the Nigerian Air Force and civil aviation industry.

"The partnership between NAMA and the Nigerian Air Force represents a shared commitment to ensuring the safety and security of Nigeria's airspace. By fostering collaboration and pursuing innovative initiatives, both organisations aim to elevate the standards of airspace management and enhance the overall aviation landscape in Nigeria," he said.

Source: Channels TV



# Report on the Deplorable State of NiMet's Air Quality Monitoring Network across Nigeria



## Introduction

The Nigerian Meteorological Agency (NiMet) is responsible for monitoring air quality and providing information to support environmental policies and public health initiatives across the country. However, recent assessments have revealed that NiMet's air quality monitoring stations are in a deplorable state, jeopardizing the agency's ability to fulfill its critical mandate effectively.

February 2024, the new management of the Nigerian Meteorological Agency (NiMet) commissioned a comprehensive audit exercise to evaluate the operational status and condition of seven critical air quality monitoring stations strategically located across the country in Sokoto, Kano, Maiduguri, Yola, Enugu, Lagos, and Abuja. These facilities, representing a substantial financial investment by the agency, are pivotal in monitoring air quality and providing

essential data to support environmental policies and public health initiatives nationwide. However, the findings of this audit exercise paint a profoundly concerning picture, unveiling the deplorable state of these stations despite the colossal financial resources that have been allocated towards their establishment and maintenance.

The audit revealed that, the current condition of these facilities is alarmingly appalling, jeopardizing their ability to fulfill their intended purpose effectively. The audit exercise shed light on the concerning reality that the air quality monitoring stations had not received the necessary attention and resources over the years by the past managements. This lack of proactive maintenance and resource allocation has hindered the stations ability to operate

at their full potential, thereby limiting the agency's capacity to effectively safeguard public health. While past oversights have undoubtedly impacted the current state of these facilities, however, it is crucial to adopt a forward-looking approach. By acknowledging the challenges identified in the audit and implementing a comprehensive strategy to revitalize and strengthen the air quality monitoring network, the agency can regain its ability to provide reliable and accurate data for evidence-based environmental policies, and contribute to sustainable development initiatives across the nation.

This audit report presents an opportunity for the current leadership of NiMet to prioritize the restoration and modernization of these vital facilities, ensuring that the invest-

ments made are not rendered futile. Through a renewed commitment to proactive maintenance, resource allocation, and collaboration with stakeholders, the agency can overcome these obstacles and reaffirm its role as a crucial contributor to environmental protection and sustainable development efforts across the country. The report from the audit of each station is presented below:

### 1. Kano Station

The inability of the contractor to complete the installation for over 5 years is appalling, the windsonic ultrasonic wind sensor, gas Analyzers and PM 10 analyzer are all available but left uninstalled in the cabin. Since installation of the new porta cabin and equipment in 2017, nothing has worked except the Air conditioners. The sensors may currently be obsolete and or may no longer available in the market. There has been no official handing over of the air quality station to NiMet by the contractor because job has not yet been completed.



Figure 1. 2a: Kano Gas pollutant Analyzers



1.2b: PM10 instrument



Figure 1.2: Kano Old Cabin



1.3: Kano New Cabin with Sensors outside



Figure 1.4: Inside cabin of Kano air quality stations showing ACs, and the Analyzers left in the station uninstalled since 2017



Figure 1.5: Set of 200Ah Batteries in Kano



Figure 1.6: Ultrasonic Wind sensor not yet installed



## 2. Sokoto

The installation was completed in February 2024, and has been working since installation. However only PM 10 was installed, all other gas analyzers were omitted, the new management should consider upgrading the station to a standard air quality reference station that can measure other gas pollutants such as CO<sub>2</sub>, CO, SO<sub>2</sub>, NO<sub>x</sub> and O<sub>3</sub> in the area.



Figure 2.1 a & b: Sokoto Air Quality Station showing Solar panels and Porta cabin



Figure 2.2 Interior of Porta Cabin showing Batteries, Inverter, Data logger and display unit in Sokoto

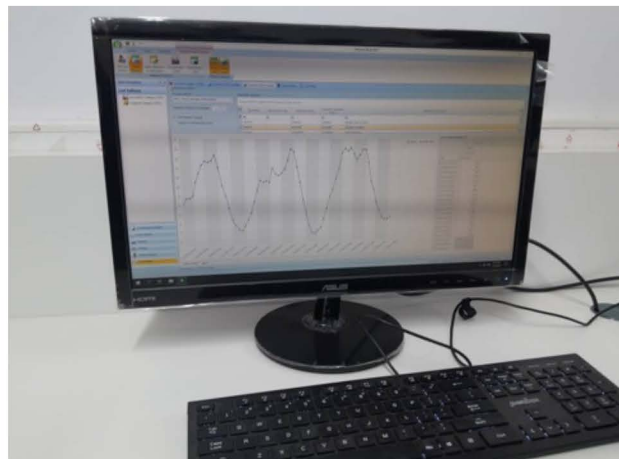


Figure 2.3: Data display unit at Sokoto



Figure 2.4 PM Sensor located outside the Porta cabin

### 3.Maiduguri

Completely non-functional since a devastating rainstorm in 2016 damaged the equipment beyond repair. The storm's intense winds ripped open the roof of the porter cabin, the housing was filled with rain water. The damage caused by the water was catastrophic, rendering all the equipment within the cabin unusable and effectively crippling the station's operational capabilities.



Figure 3.1: The Exterior of Sokoto air quality station



A



B



C



D. Figure 3.2 a-d: Damaged sensors and Air conditioning system in the portal cabin at Maiduguri Air quality Station damaged by severe storm since 2016



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#### 4. Yola

The installation process is currently underway. However, a critical aspect that remains pending is the deployment of sensors to the station, there is also a concern regarding the potential limitation of equipping the station solely with PM10 or PM2.5 monitoring capabilities. It is imperative to integrate gas analyzers into the installation to fully utilize the station's potential as a comprehensive air quality monitoring facility and maximize the station's effectiveness. To ensure the station provides comprehensive air quality data, it is recommended to explore upgrading the station's capabilities. This upgrade should enable the measurement and monitoring of various gaseous pollutants in addition to particulate matter. By expanding the station's scope, it will evolve into a complete and standard air quality monitoring facility, capable of delivering valuable insights into the region's overall air quality status. This proactive measure will maximize the return on investment and enhance the station's utility.



Figure 4.1: The housing for the equipment in Yola (Installation still in progress at Yola Air quality station)



Figure 4.2: The Solar Panel installed (Not yet functioning)

## 5. Enugu Station:

The station became functional after complete installation in 2013, worked till 2015. All MSS international/ MSA gas analyzers which measured CO, NO<sub>2</sub>, SO<sub>2</sub> and PM<sub>10</sub> and wind sensor were carried away by the contractor in January 2019 for servicing, repairs and up-grade, but never returned till date. The porta cabin at present is empty and dilapidated



Figure 5.2: Existing Porta Cabin at Enugu and the interior showing empty cabinet and inverter batteries



Figure 5.3: Dilapidated interior of Air Quality Station in Enugu



Figure 5.4: Dell Laptop at Enugu Station used to store data (Not functioning)



## 6. Lagos Station

Power outage occurred in Meteorological Research and Training institute Oshodi where the station is located, leaving the facilities without electricity for an extended period. Despite being connected to solar and inverters, they could not sustain the equipment for the period of power outage. It was discovered that the intense heat had rendered the cabin unbearably hot, causing the equipment to cease functioning.



Figure 6.1: Exterior of the Lagos Air Quality station



Figure 6.2: Solar panel installed in Lagos Air quality station



Figure 6.3: Interior of the cabin showing the analyzers (Not functioning)



Figure 6.4: Interior of the cabin showing the Air Conditioning systems (Not functioning)



Figure 6.5: Swollen batteries caused by high temperature within the porta cabin

## 7. Abuja

The station was installed in 2019 and remained functional until June 2021, when a power outage occurred at the National Hospital Central Business District Abuja where the station was located. Consequently, the air conditioning system ceased to operate, leading to excessively high temperatures within the monitoring station, which adversely impacted its functionality and rendered the station inoperative



Figure 7.1: Exterior Abuja air quality station



Figure 7.2: The analyzers of Abuja Air Quality stations (Not functioning)



Figure 7.3 Swollen inverters batteries caused by exposure to high temperatures



### Key Challenges

A significant challenge plaguing many of NiMet's air quality monitoring stations is the unreliable power supply. These instruments, are highly susceptible to frequent malfunctions and breakdowns, due power outage. Unreliable power supply and inadequate backup systems have disrupted operations and caused equipment damage. Persistent power supply instability and the glaring inadequacy of backup systems have proven to be formidable obstacles, frequently disrupting the operations of NiMet's air quality monitoring stations. These power-related challenges

have not only hindered the stations' ability to collect and transmit data seamlessly but have also inflicted significant damage upon the sensitive instrumentation installed at various facilities. Exacerbating this issue is the stark inadequacy of backup power systems, which should serve as a contingency measure to ensure uninterrupted operations during power outages. The absence or ineffectiveness of these backup systems has left the stations defenseless against the consequences of power supply disruptions, resulting in extended downtimes and increased risks of equipment failure.



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## Way Forward

The new management has a keen interest in air quality monitoring in Nigeria and has shown a willingness to address the deplorable state of NiMet's air quality monitoring network. The new DG /CEO Prof Charles Anosike has taken steps to ensure the upgrade and replacement of these equipment to guarantee availability of reliable and comprehensive air quality data. Advocating for increased funding from relevant authorities to support equipment procurement, maintenance, and capacity-building initiatives are parts of the new management plan to fulfil NiMet mandate on air quality monitoring. Engagement with stakeholders, including policymakers, industry representatives, and civil society organizations, to ensure their support and involvement in air quality monitoring efforts and establish mechanisms for public access to air quality update, forecast and information. Investment in comprehensive training programs for personnel to enhance their skills in air quality monitoring, analysis of data to provide accurate and timely air quality forecast is paramount in the new management agenda. Capacity building is also important for the technicians operating, maintaining, and troubleshooting air quality monitoring equipment.

Furthermore, part of the way forward is to complement the reference air quality monitoring stations with low-cost air quality devices. Reference air quality stations are often limited in number due to their high cost and complex setup. By deploying low-cost air quality devices, it becomes possible to increase the spatial coverage and collect data at higher temporal resolutions (e.g., minute-by-minute or hourly) compared to reference stations, which may only provide daily or hourly averages of air quality monitoring, providing more comprehensive data across a wider area. This can help identify pollution hotspots and better understand the spatial variability of air pollutants specific activities or events.

By implementing these comprehensive measures, NiMet will rebuild a robust, reliable, and sustainable air quality monitoring network across Nigeria, enabling

the agency to fulfill its mandate, inform evidence-based policymaking, and contribute to a healthier and more sustainable environment for all Nigerians.



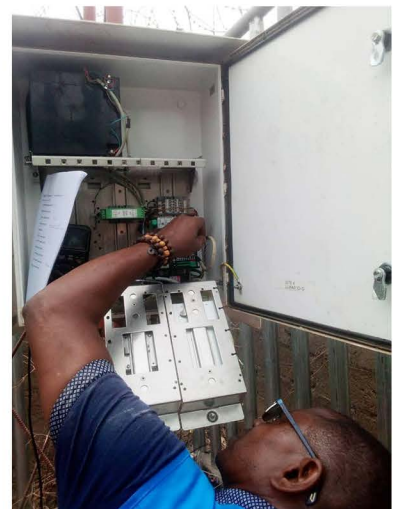
## NiMet Conducts Assessment Of Meteorological Components Of The Safe Tower Project At Nnamdi Azikiwe International Airport, Abuja

The Nigerian Meteorological Agency (NiMet), has carried out an assessment of the meteorological components of the Safe Tower Project at the Nnamdi Azikiwe International Airport, Abuja.

Staff of the agency carried out the assessment with AVSATEL Communications Limited, led by Greg Eden. The assessment is in line with the Aviation Sector road-map and mandate of maintaining safety in the sector.

The assessments which were conducted on the 2nd and 3rd of April, 2024, covered the Automatic Weather Observation and Display System (MIDAS IV AWODS) and the Low Level Windshear Alerts System (LLWAS).

Other locations are also planned as part of a nationwide assessment.







L-R: Barr. Shola Gabriel Esq. Director Legal Service/Company Secretary, Prof. Charles Anosike DG/CEO NiMet, Tom Copping CEO Vartysian LTD.

## NiMet And Varysian Ltd Sign MOU to Partner in Key Areas

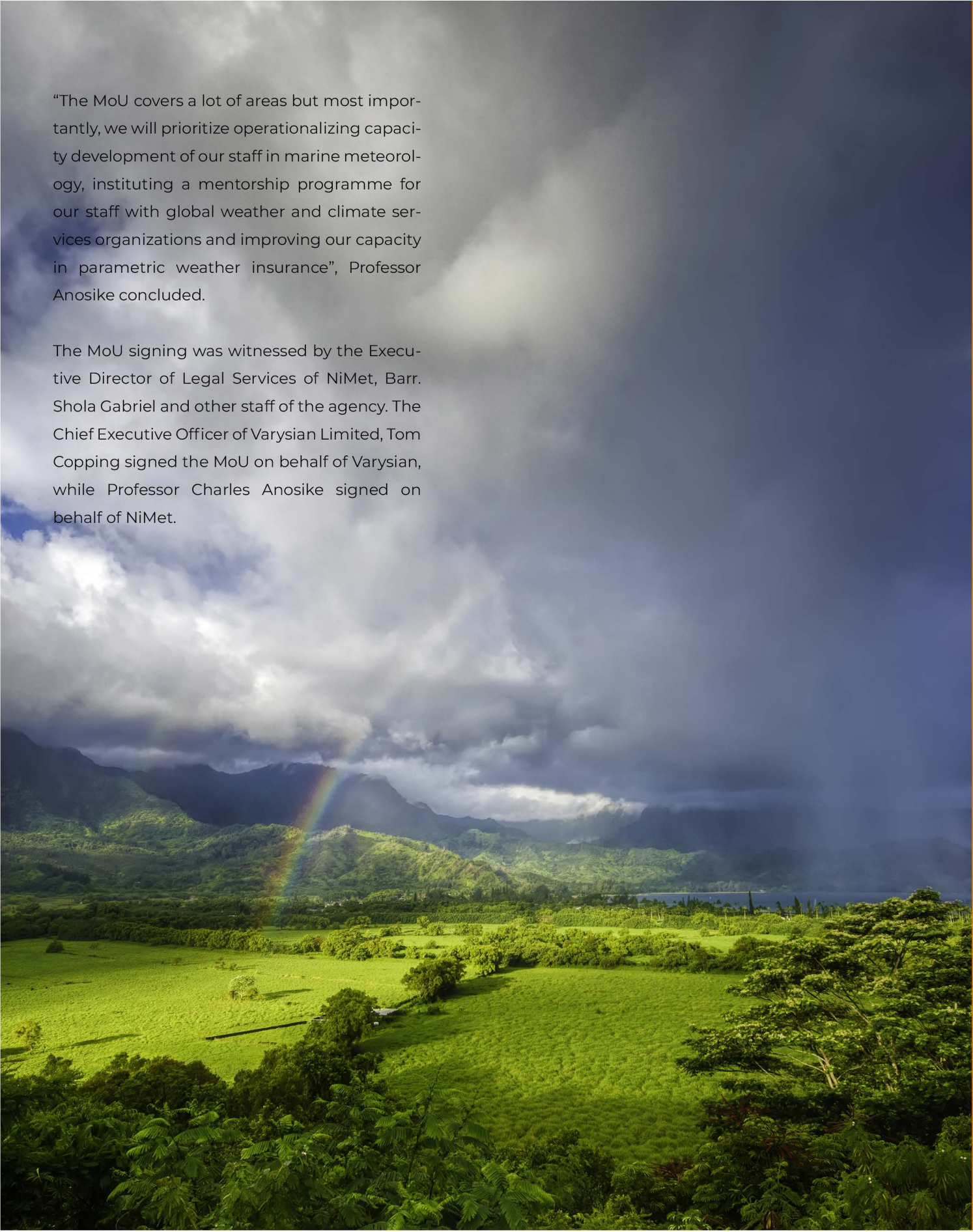
Nigerian Meteorological Agency (NiMet) on Tuesday, 27th February, 2024, signed a memorandum of understanding (MoU) with Varysian Limited, a United Kingdom-based weather and climate services consultancy, to partner in key areas that will lead to improved service delivery by the agency.

Speaking at the MoU signing, the Director General and Chief Executive Officer of NiMet, Professor Charles Anosike said that the MoU signing and eventual actualization will further strengthen the agency's commitment to providing world-class weather and climate information services to Nigerians and the various industry sectors that it serves. "We are happy to be partnering Varysian Limited. Their expertise is in enhancing partnership and collaboration between National Meteorological & Hydrological Services (NMHS) and other industry stakeholders, through world-class events, data and research", Professor Anosike said.





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“The MoU covers a lot of areas but most importantly, we will prioritize operationalizing capacity development of our staff in marine meteorology, instituting a mentorship programme for our staff with global weather and climate services organizations and improving our capacity in parametric weather insurance”, Professor Anosike concluded.

The MoU signing was witnessed by the Executive Director of Legal Services of NiMet, Barr. Shola Gabriel and other staff of the agency. The Chief Executive Officer of Varysian Limited, Tom Copping signed the MoU on behalf of Varysian, while Professor Charles Anosike signed on behalf of NiMet.

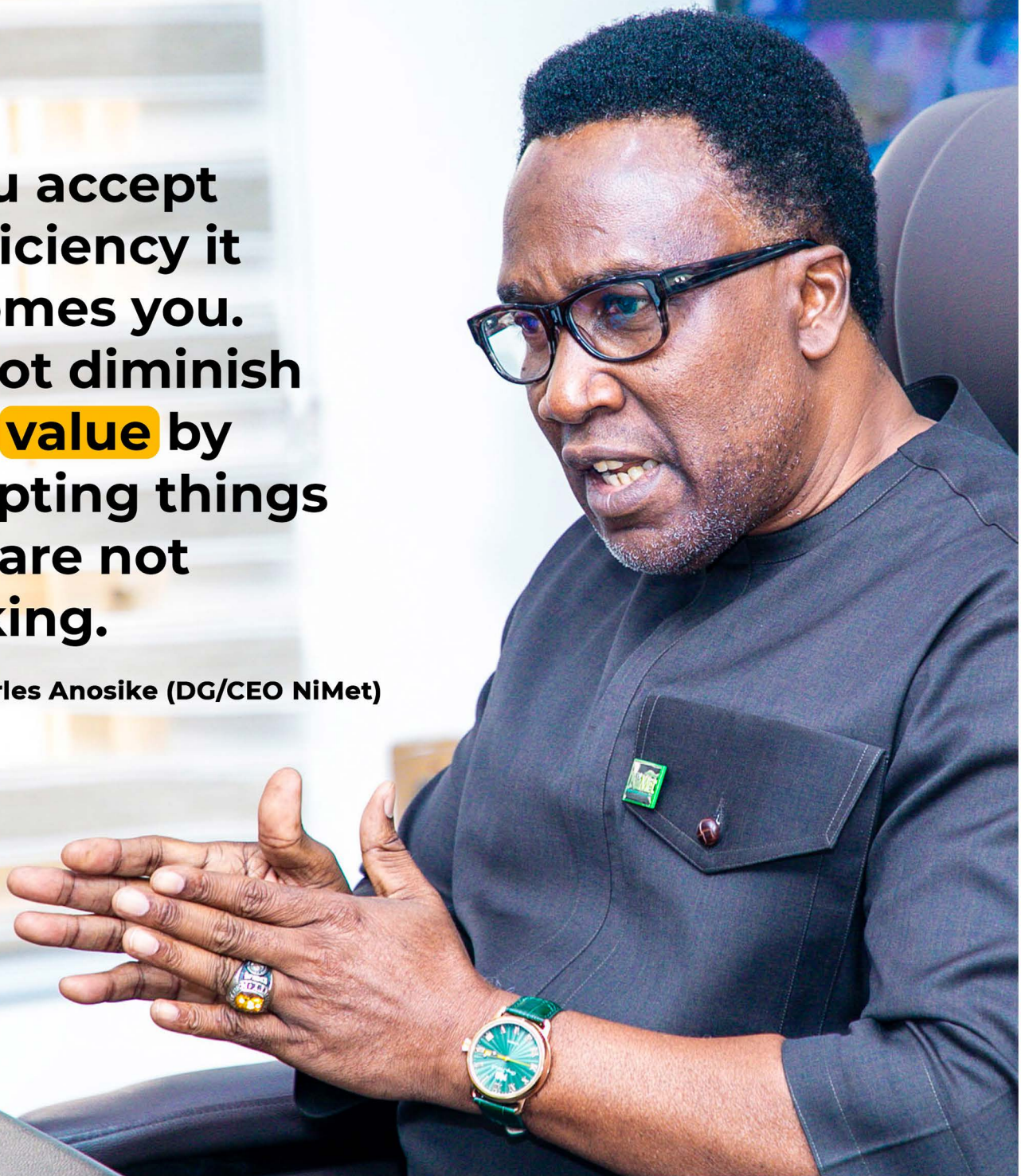


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**If you accept  
inefficiency it  
becomes you.  
Do not diminish  
your **value** by  
accepting things  
that are not  
working.**

**Prof. Charles Anosike (DG/CEO NiMet)**





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# Dressing for the **Weather**

Mulikat Etudaiye of NiMet's Public Relations Unit shares fashion tips suitable for the current hot weather



Style encompasses a myriad of human expressions, from writing style, artistic style, personal style to music and fashion style. It serves as a canvas for individuality, creativity, and preference -reflecting a collective identity through diverse mediums.

As Nigeria finds itself engulfed in an intense heat-wave, prompting the humorous “who is cooking Nigeria” trend on social media platforms, the Nigerian Meteorological Agency (NiMet) forecasts soaring temperature of 40 degrees Celsius across the North and North central regions and 35 degrees Celsius for southern states and predicting delayed onset of rains in some parts of the country. It is evident that this weather phenomenon has profoundly influenced our expression, particularly within the realm of fashion.

In the timeless words of Yves Saint Laurent “fashion fade, style is eternal”. Therefore, while the scorching weather may dictate our clothing choices, it should not compromise our sense of style. From the selection of materials to the intricacies of sewing and the vibrancy of colors, there lies an opportunity to redefine our sartorial narratives.

During this era of relentless heat, embracing bright hues becomes imperative. Shades of white, yellow, pink, orange, grey and nude are not only aesthetically pleasing but also practical, as they effectively reflect the sun's rays, thereby keeping fabrics cooler. Additionally, opting for lighter garments crafted from breathable materials further enhances comfort amidst the sweltering conditions.





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Loose-fitting attire, a staple in Nigerian vernacular, epitomizes the mantra “no gree for anybody” underscoring the importance of maintaining one’s personal style despite the adversities posed by the weather.

In essence, let the scorching heat ignite the fervor of the stylist in you. Embrace the challenge of crafting ensembles that not only withstand the elements but also exude individuality and panache. For in the crucible of adversity lies the true test of style, and it’s during these moments that our sartorial ingenuity shines brightest.







## NiMet Partners Hellerweather in Training TV Weather Presenters

According to the Director General and Chief Executive Officer of NiMet, and the permanent representative of Nigeria with the World Meteorological Organization (WMO), Professor Charles Anosike; “The 12-month training is to improve the communication skills of the agency’s weather presenters. We are currently signing up national television stations to start airing our 1-minute daily weather forecasts to complement what we are already doing across our social media platforms. With the training, the presenters will be able to establish a stronger connection with the audience in weather reporting and meteorology broadcasting by efficiently delivering weather forecasts that are informative, engaging, and reliable”.

Wasiu Ibrahim, a staff of the agency who is also a weather presenter thanked the new management for prioritizing staff training. “The training will help the weather presenters to improve their on-camera presence, and overall effectiveness in delivering weather information to the public. NiMet is keen on refining our presentation skills, including tone, pace, and body language, to captivate and retain our audience's attention. Also, to reinvigorate NiMet's weather coverage on-air, online, and on social media”.



**Tim Heller**

The course modules include fundamentals of effective weather communication, forecasting the weather, producing the weather, and delivering the weather. The training will be delivered by Tim Heller, an American Meteorological Society (AMS) Certified Broadcast Meteorologist, Talent Coach, and Weather Content Consultant.



# NiMet DG/CEO Anosike Promises Facilities Upgrade And Improved Staff Welfare During Oversight Visit To Agency's Lagos Offices

As part of management's efforts to reposition the Nigerian Meteorological Agency (NiMet) for improved service delivery, the Director General and Chief Executive Officer of the agency, Prof. Charles Anosike, has undertaken a tour of the agency's offices in Lagos.

NiMet offices in Lagos boasts of vibrant Regional Training Centre (RTC), excellent Forecast Office for Aeronautical Meteorology and Marine Meteorology.

During the first day of the visit, the DG/CEO visited the Regional Training Centre (RTC) in Oshodi.

While speaking to the staff, Prof. Anosike promised to uphold the vision of the founders of the school, and said that management will transform and digitalize its operations.

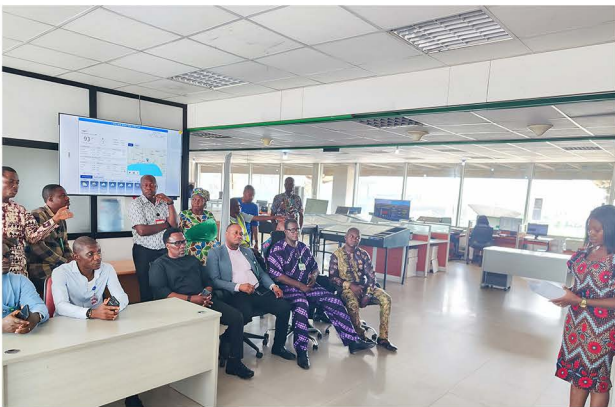
Other facilities inspected by the DG/CEO at the Regional Training Centre (RTC) included the newly established marine meteorological forecast office where forecast specific to marine, maritime and blue economy sector, including Oil and Gas are issued.

Agro-meteorological Lab, weather observatory, poultry farm and various fabrication labs and printing press.

On the second day of the oversight visit, the DG/CEO visited the Forecast Office of the Agency located at the Murtala Mohammed International Airport, Ikeja, Lagos. He participated in the weather discussion of the day before embarking on facility tour followed by an informal meeting with the staff of the Forecast Office across various disciplines.

To conclude his visit, the DG/CEO also visited the Meteorological Observatory and staff accommodations, assuring that management will address the various challenges noted through judicious use of available resources.







# NiMet and Sahel Consulting Sign MOU to Promote Resilient Agricultural System in Nigeria



Barr. Shola Gabriel (DLS), Prof. Charles Anosike (DG/CEO NiMet), Yemi Adegoye (Sahel)



Nigerian Meteorological Agency (NiMet) on Thursday, 22nd February, 2024, signed a memorandum of understanding (MoU) with Sahel Consulting to build sustainable climate monitoring and address early warnings system bottlenecks for resilient agricultural systems in Nigeria.

Signing the MoU, the Director General and Chief Executive Officer of NiMet, Professor Charles Anosike stressed the importance of early warnings as a measure to protect citizens.

“The importance of Early Warnings System cannot be over emphasized and we are willing to partner with any organization that is capable of investing in preparedness. This will help protect our population who should and must be protected by early warnings of climate disaster”, he said.

The Climate Early Warnings project is to be executed by Sahel Consulting Agriculture and Nutrition Limited, in collaboration with a consortium of implementing partners including The Bill and Melinda Gates Foundation and NiMet.

The project will include the provision of six Meteorological Automatic weather Observation Systems (AWOS) in Nigeria and setting up of a Mapping Room. It will also include capacity development for staff of NiMet and other government ministries, departments and agencies in Nigeria.

The implementation team includes members from International Centre for Tropical Agriculture (CIAT), the International Research Institute for Climate and Society (IRI) of Columbia University, New York, USA among others.

Yemi Adegoye signed the MoU on behalf of Sahel Consulting and the consortium, while Professor Charles Anosike signed on behalf of NiMet.





# NiMet DG/CEO Anosike Hosts DG Of BPSR, To Partner On Reforms



Prof. Charles Anosike (DG/CEO NiMet), Dr. Dasuki Ibrahim (DG BPSR)



The Director General and Chief Executive Officer of the Nigerian Meteorological Agency (NiMet), Professor Charles Anosike on Thursday, 22nd of February, 2024, hosted the Director General of the Bureau of Public Service Reforms (BPSR).

Professor Anosike while welcoming the BPSR team to the agency's headquarters in Abuja said; "NiMet as an agency does much more than just provide public weather information which is our core mandate. We also provide climate information to farmers, the aviation, construction, marine, oil and gas and other sectors".

Explaining further, Professor Anosike added that most of the public service reforms BPSR is championing, particularly corruption, are already being implemented at NiMet. "We have the Anti-Corruption Unit (ACTU) and we also have a vibrant legal unit and we are revamping our performance management system", he said.

Professor Anosike noted that improving work ethics

by staff helps to drive performance, emphasizing that everything is interconnected.

"If you implement performance management just to create heroes, that may also disconnect other staff, so how we implement performance management is very important".

Concluding, Professor Anosike disclosed that the Minister of Aviation and Aerospace Development, Festus Keyamo, SAN, during the induction of Aviation Agency CEOs made them sign a performance bond committing to deliver on the ministry's five point agenda. "NiMet has started working on delivering on the agenda with the development of a work-plan by all the directorates. "The Honourable Minister is looking forward to us delivering on our KPIs, so we are working very hard to deliver but we also want to sustain the KPIs".

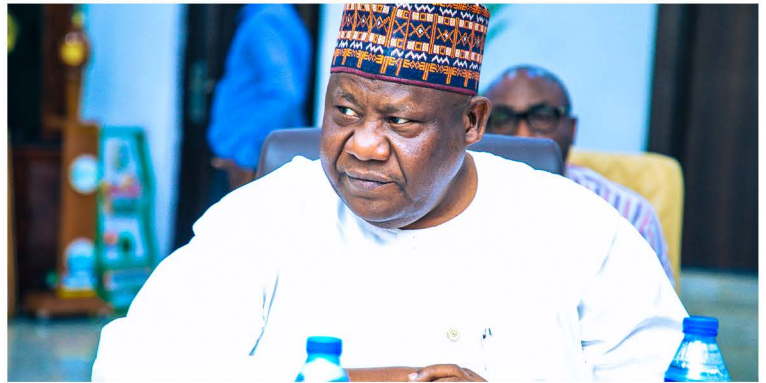
Earlier in his remarks, the Director General of the Bureau of Public Service Reforms (BPSR), Dr. Dasuki Ibrahim Arabi, disclosed that the bureau's



interest in NiMet is borne out of their strategy document. "As a bureau, we have what we call the national strategy on public reforms which is the road map on reforming federal public service and that document is reviewed after every three years. We are currently processing the latest version of the document. It is with the Mr President for his input before publication."

Speaking further, he disclosed that the vision is to get the Nigerian public service to be among the first twenty public services in the world by the year 2025. "We have already identified some agencies of government that have gotten to that level and NiMet is one of them and that is our point of interest in your agency", he said.

Dr. Arabi added that the bureau is watching NiMet closely and is encouraged by the good results coming out of NiMet.



# Photo NEWS



The Director-General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet), Prof. Charles Anosike, on Tuesday, 6th February, 2024, received in audience the Managing Director/Chief Executive Officer of Nigerian Airspace Management Agency (NAMA), Engr. Umar Ahmed Farouk (3rd right in the group photograph), and the Managing Director/Chief Executive Officer of Avsatel Communications Ltd, Mag. Georg Eder (2nd left), at the agency's headquarters in Abuja.

The three Chief Executive Officers discussed collaboration and other matters that will be of mutual benefits to their respective organizations.

Also at the meeting were Engr. Abdulkareem Hamid Olayinka, Director, Engineering and Technical Services, NiMet (left), and Prof. Vincent Ezikornwor Weli, Director, Weather Forecasting Services, NiMet (Right).



# Photo NEWS

The Director General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet), Professor Charles Anosike joined other dignitaries including the Minister of Aviation and Aerospace Development, Festus Keyamo, SAN, at Shehu Musa Yar'adua Centre, Abuja, on Friday, 2nd February, 2024, at the 10th Edition of The Aviation Workers' Week & Award Nite themed 'Workers As Strategic Partners In Achieving The Aviation Roadmap'.





# NiMet DG/CEO Hosts NIM President and Council Members



Left - Right: Prof. Charles Anosike, DG/CEO (NiMet) and Dr. Mrs Christiana Atako, President and Chairman of council, NIM

The Director General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet), Professor Charles Anosike, on Monday, 19th February, 2024, hosted the President and Chairman of council of the Nigerian Institute of Management, Dr. Mrs Christiana Atako, and council members of the institute in his office at NiMet's headquarters in Abuja.

Speaking during the visit, Dr. Mrs Christiana Atako said; "On behalf of the council of Nigerian Institute of Management (NIM), I congratulate you, the Director General/Chief Executive Officer (NiMet), on your appointment last December by President Bola Ahmed Tinabu, GCFR, to lead this important agency of government. Your appointment is as befitting as it is deserving and your well known pedigree of performance in your previous assignments has prepared you adequately for the challenges ahead. The Institute which you belong to as a Fellow is proud of you and believes that you will make a success of this new assignment. The signs of what you are bringing to the table to move the Agency forward are already showing with the great

managerial and leadership direction you have provided so far".

Dr. Mrs Atako further informed the DG/CEO of NiMet, Prof. Charles Anosike of the services NIM offers which will be beneficial to the Agency. These include but are not limited to executive training and intensive training for the membership admission programme.

Concluding, the NIM President and Council Chairman requested that the management of NiMet considers paying outstanding membership dues of staff members as a way of motivating the affected staff. She also requested that NiMet considers sponsoring staff to attend the 2024 Annual National Management Conference (ANMC) of the institute holding in Port Harcourt, Rivers State, from 22nd to 24th September.

Responding, the DG/CEO of NiMet, Prof Charles Anosike thanked the NIM council for honouring him with the visit.



“Management is the organizing principle of any institution. NiMet’s workforce are focused on delivering on the mandate given to us by our Honourable Minister, Festus Keyamo, SAN, drawn from the Aviation Sector Roadmap for Nigeria. Part of that mandate is staff development. The science of meteorology requires proper management and coordination. As you are aware, NiMet is a scientific organization and we have several smart people and Professors working in the agency. We welcome the idea to collaborate with the Nigerian Institute of Management”.

Continuing, Prof. Anosike said; “We need to define the terms of the collaboration with NIM by signing an MOU which will outline the responsibilities and expectations from both NiMet and NIM. We are aware that NIM has over 200,000 members so this is good and presents an opportunity for shared experiences. We will use the joint platforms of NiMET and NIM to promote the science of meteorology and management, and expose these professions to young persons”.

#### Photo Gallery

(1) Handshake Photo: Left - Right:  
Professor Charles Anosike, Director General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet) and Dr. Mrs Christiana Atako, President and Chairman of council, Nigerian Institute of Management.





# NiMet And FUPRE Plan Joint Weather Monitoring Station



Left - Right: Prof. Charles Anosike, DG/CEO NiMet and Prof. Akpofure Rim-Rukeh VC FUPRE



The Director General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet), Professor Charles Anosike has said that the agency will continue to deepen its relationship with universities and other academic institutions in Nigeria.

Professor Anosike said this on Tuesday, 13th February, 2024, while welcoming the Vice Chancellor of Federal University of Petroleum Sciences, Effurun, Warri, Delta State, Professor Akpofure Rim - Rukeh, to his office at NiMet's headquarters in Abuja.

According to Professor Anosike; "The visit by the Vice Chancellor of FUPRE and his team to NiMet is timely as the agency is deepening its relationship with universities and academic institutions in Nigeria".

"I see a lot of opportunities for collaboration with FUPRE in wide ranging areas especially in the marine sector and blue economy. Research is another important area where the two organizations can leverage their respective strengths and competencies. We will develop a memorandum of understanding (MOU) and share it with FUPRE leadership for their input", Prof. Anosike concluded.

Responding, Professor Rim-Rukeh congratulated Professor Anosike on his appointment by President Bola Ahmed Tinubu saying that his wealth of experience will greatly enrich the services the agency renders to its various stakeholders.

"NiMet is critical to the survival of the aviation sector and other sectors in Nigeria.

FUPRE wishes to explore the possibility of setting up a weather monitoring station in the university with NiMet. We are also keen on partnering NiMet in the area of training and capacity building. Other areas of interest we wish to explore are opportunities for our students to do their industrial attachment and gain work experience at NiMet, publication of joint journal with NiMet on atmospheric variables and related areas, endowment of a professional chair at FUPRE etc".



# NiMet DG/CEO Anosike Tours Abuja Forecast Office



The Director General and Chief Executive Officer of NiMet, Professor Charles Anosike, on Friday, 16th February, 2024, toured the agency's Abuja Forecast Office located at the Nnamdi Azikiwe International Airport in Abuja.

Professor Anosike was accompanied on the visit by the Director of Weather Forecasting Services (WFS) of the agency, Professor Vincent Weli and other technical staff.

On arrival, the team was received by the manager of the station, Adenubi Rotimi, who showed them around the centre. After inspecting the state of the equipment and facilities, Professor Anosike held an interactive session with the staff and thanked them for their hard work. He promised that management will look into their welfare concerns.

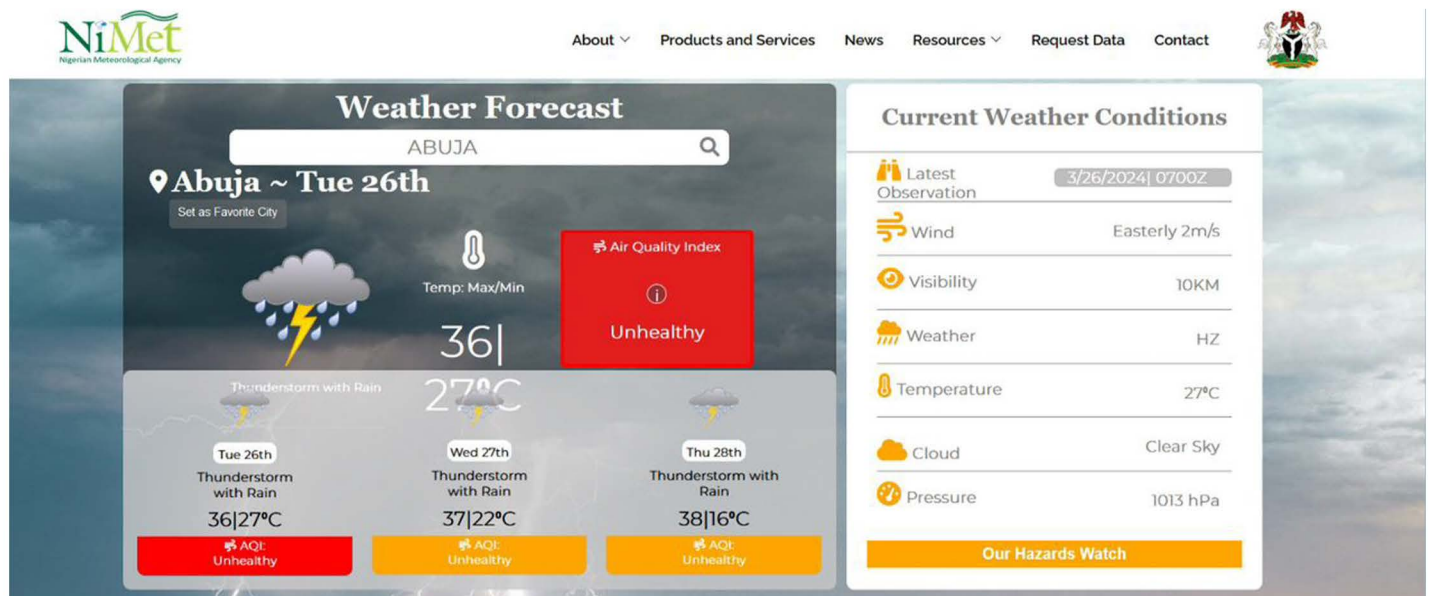
“Among other priorities contained in the aviation sector roadmap, the Honourable Minister of Aviation and Aerospace Development, Festus Keyamo, SAN, has charged us to prioritize capacity building and infrastructural development. I am proud of

your commitment and professionalism. Management will address the issues raised to improve our service delivery”, Professor Anosike said.





# NiMet Unveils New Dynamic Website



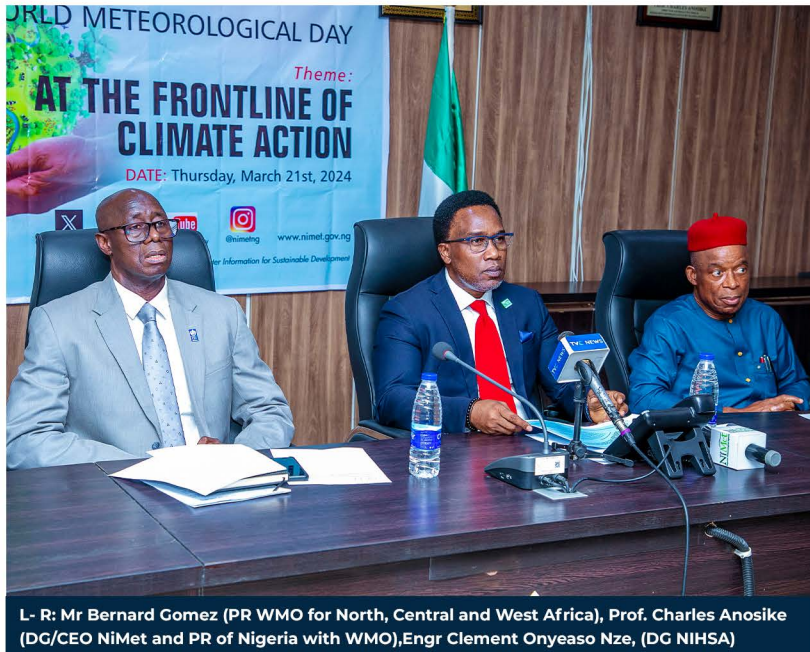
The Nigerian Meteorological Agency (NiMet), has unveiled its new website which the agency's Director General, Chief Executive Officer, and the permanent representative of Nigeria with the World Meteorological Organization (WMO), Professor Charles Anosike says is; "More functional, interactive, dynamic and compares with websites of Met Offices in other parts of the world. The new website which can be accessed through our [nimet.gov.ng](http://nimet.gov.ng) domain has been meticulously designed by our internal ICT staff from the ground up, with a primary focus of establishing a sustainable and scalable portal for the agency". Continuing, Prof Anosike said that the unveiling of the new NiMet website, "is part of ongoing efforts by the new management of the agency to reposition the agency for improved and effective service delivery. This is in addition to other initiatives which are in line with the Aviation sector roadmap of the Federal Ministry of Aviation and Aerospace Development".

Cyprian Okpalaku, Special Adviser on Information Communication Technology (ICT) to DG/CEO of NiMet, said that with the new website; "members of the public can effortlessly request data and monitor the progress of their requests directly through

portal. Also, the weather forecast widget has been revamped to enable partner agencies or organizations to easily integrate it into their own websites". Okpalaku listed other features of the website to include; per section view homepage design making it easy for visitors to concentrate on one content section at a time thus enhancing user experience, improved responsiveness ensuring optimal viewing and functionality across all devices, secured back-office security matrix, highlighted enhanced features such as former Directors General sections, Sustainable Development Goals (SDGs) display, archive and documents section, NiMet Chat Box - an intelligent chat box which acts as a NiMet agent, responding to client inquiries with precision, weather alert section, activity sub-domains for agency departments, and an integrated news section.

Concluding, Okpalaku said that the new NiMet website; "serves as a cornerstone for the modern portal structure, contributing to NiMet SmartNet, a system facilitating back-office and smart office operations management across the agency and its branches nationwide".

# NiMet And WMO Commemorate 2024 World Meteorological Day



L- R: Mr Bernard Gomez (PR WMO for North, Central and West Africa), Prof. Charles Anosike (DG/CEO NiMet and PR of Nigeria with WMO), Engr Clement Onyeaso Nze, (DG NIHSA)



The Nigerian Meteorological Agency (NiMet), and the World Meteorological Organization (WMO) have commemorated 2024 World Meteorological Day.

At the event held on Wednesday, 21st of March at the agency's headquarters in Abuja, the Director General/ Chief Executive Officer of the Nigerian Meteorological Agency (NiMet), Professor Charles Anosike, said the reason for commemorating the day ahead of the usual 23rd day of March was to ensure effective participation of young ones and other stakeholders. March 23rd falls on Saturday when students will be at home.

Professor Anosike said; "We recognize the indispensable role of meteorology in building a sustainable developed society. From providing accurate weather forecasts to mitigating the impacts of natural disasters, as well as building climate resilient societies, the Nigerian Meteorological Agency remains steadfast in its commitment to safeguarding lives, property, and livelihoods across the country".

Continuing, he said that; "Climate change poses an existential threat to our planet, exacerbating extreme weather events, disrupting ecosystems, and endangering vulnerable communities. In the face of these challenges, it has become imperative that we increase our efforts towards building a weather and climate-resilient society".

"We must not relent at encouraging our young minds to build their capacity for meaningful contributions to effective climate actions that is impactful and measurable".

Concluding, Professor Anosike quoted the Secretary-General of WMO, Prof. Celeste Saulo in his World Meteorological Day 2024 who said; "The lives of future generations are in our hands. Our efforts today will ensure a safer, healthier world for future generations—a world where children thrive in harmony with nature".

Also speaking at the event, the Permanent Representative of WMO for North, Central and West Africa, Mr Bernard Gomez said; "The recent fluctua-



tions in the weather witnessed in Nigeria, during this transition from dry to rainy season clearly demonstrate the extreme weather events that we can face across the country. The shifting weather phenomena from heat waves, thunderstorms and thick dust haze happening within a short period, are indicative of a changing climate which calls for concerted efforts by NiMet to be more vigilant and for communities to be responsive to weather forecasts and alerts”.

Mr Gomez charged all, “to commit to working together – governments, scientists, communities, individuals and including children – to leverage the power of weather and climate information for a more sustainable future”. While wishing all “Happy World Meteorological Day 2024”, he also commended the Federal Government of Nigeria, through the Permanent Representative of Nigeria with WMO, Prof. Charles Anosike, for the strong partnership with WMO.

“We are highly grateful for the support given to members and to WMO. As Prof. Anosike will soon be taking his seat in the Executive Council of WMO, he will be better informed of the achievements but also the challenges facing the community, specifically our region and I am sure he would continue to support less endowed nations for the benefit of a stronger community”, Mr Gomez concluded.

In his goodwill message, the Director General of the Nigeria Hydrological Services Agency (NIHSA), Engr Clement Onyeaso Nze, said; “NiMet has been a very good partner to NIHSA providing data for NIHSA to do its work. We appreciate NiMet for all they do for the country. We will keep on partnering them for the socio-economic development of the country. Meteorology is a very serious business which cuts across all sectors. NiMet details the impact of climate and weather change in their annual seasonal climate prediction (SCP) programme. Even the WMO appreciates what NiMet is doing, helping other African countries in their meteorological forecasts”.

There were poetry and drama performances by students from Anglican Girls Grammar School Gudu, Holy Family College Kuje, Government Secondary School Gwagwalada, and Government Science & Technical College Abaji to commemorate the day.





# Effective Early Warning System Could Boost Food Security In Nigeria...NiMet DG/CEO Prof. Anosike



Prof. Charles Anosike (DG/CEO NiMet and PR of Nigeria with WMO) speaking in panel session



The Director General and Chief Executive Officer of Nigerian Meteorological Agency (NiMet), and Permanent Representative of Nigeria with World Meteorological Organization (WMO), Professor Charles Anosike, has said that effective early warning system, equipping farmers with the knowledge of weather patterns and seasonal forecasting could boost food security and ensure adequate protection from climate disasters.

Professor Anosike was speaking on Thursday, 21st March, 2024, as a panelist during the USAID Global Food Security Strategy Country Plan launch in Abuja. The Panel discussed the role of development partners and Nigerian MDAs in ensuring food security.

Professor Anosike said that Nigeria is presently facing food security challenges which requires a new way of thinking by integrating weather and climate related factors into the entire agricultural value chain. According to Professor Anosike; "NiMet is working with partners to mainstream weather and climate information in the agricultural value chain. We are using co-production mechanism to facilitate our seasonal climate prediction. NiMet en-

ures appropriate understanding and use of weather information by stakeholders to improve planning and strategic decision making. Our annual Seasonal Climate Prediction (SCP) is a climate action -early warning tool that gives an outlook of weather and climate variability in upcoming months within the year. It highlights rainfall patterns and temperature variability".

Continuing, Professor Anosike said; "Unpredictable rainfall patterns and extreme events can trigger competition for food and water. Declining agricultural outputs can lead to loss of income and exacerbate food insecurity. Temperature changes affect crop growth and yield, and can also destroy crops during post processing and transportation".

"We need to intensify our collaborative efforts with deliberate and intentional strategy to promote climate - smart agriculture and invest in preparedness, and improve the response ability of our smallholder farmers. Climate change may not be the only source of our problems, however, climate change is the 'threat multiplier' as it intensifies resource scarcity and deepens food insecurity", Professor Anosike concluded.



# Take Advantage Of NiMet's Automated Data Request

Data, product and service requests are now seamlessly automated at NiMet, to allow the public to request for meteorology data and services from any part of the world. Your requests will be attended to promptly.

With quality through-put, this automation has reduced response time drastically. We also have options on our portal to initiate further communications when the client needs urgent information with or without human intervention.

The client has access to secured dashboard to track his or her request's timelines till the request is completed or closed.

We hope to serve you better with the introduction of this service.

For details, visit our website [www.nimet.gov.ng](http://www.nimet.gov.ng).



Data Management Unit



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# MTN Partners NiMet On Weather Information Dissemination To Farmers



Leading telecommunications services provider, MTN, says it will partner the Nigerian Meteorological Agency (NiMet), in disseminating weather and climate information to farmers and other users across Nigeria.

The partnership is coming on the heels of a memorandum of understanding (MoU) signed in February 2024, between NiMet and Tomorrow.io, a leading weather intelligence company based in Boston, Massachusetts, USA, with footprints across Africa and the Middle East. The two organizations are collaborating on a whole range of areas including commercializing weather data, improving accuracy of weather and climate forecasts, and application of artificial intelligence (AI) in weather and climate intelligence.

Tobechukwu Okigbo, Chief Corporate Services & Sustainability Officer of MTN Nigeria Communications Limited said of the MTN and NiMet partnership; “As the leading provider of communications services in Nigeria, with over 77 million people on our network, we are committed to supporting na-

tional initiatives that enhance the quality of life of Nigerians. Therefore, we are open to supporting NiMet's partnership with Tomorrow.io to make this service available to farmers across Nigeria.

We appreciate the opportunity to work together to improve the nation's food security and anticipate a fruitful working relationship”.

On his part, the Director-General and Chief Executive Officer of the Nigerian Meteorological Agency (NiMet), Professor Charles Anosike said; “NiMet is the federal government of Nigeria agency responsible for observing, collating, collecting, processing and disseminating all meteorological data and information. The weather and climate data that we generate are useful planning tools for all Nigerians, farmers and other sectoral operators in aviation, marine, oil and gas, construction, academia etc. We are delighted to be partnering MTN Nigeria to support the critical task of disseminating weather and climate information to farmers to boost food security which is a key component of the Renewed Hope Agenda of President Bola Ahmed Tinubu”.



# Photo NEWS

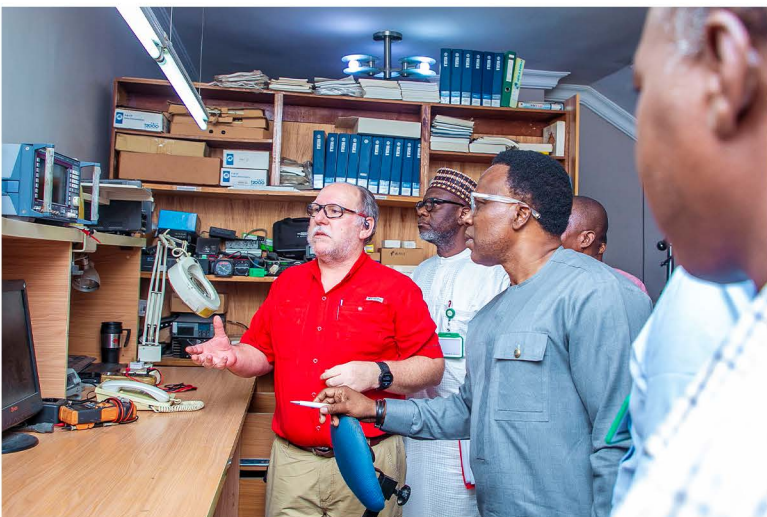
## NiMet Team Led By The DG/CEO Anosike Visits AVSATEL Office In Abuja, Explores Areas Of Mutual Interest

The Director General and Chief Executive Officer of the Nigerian Meteorological Agency (NiMet), Prof. Charles Anosike, on Wednesday, 13th March, 2024, led some Directors and technical staff of the agency on a visit to the Abuja offices of AVSATEL, a leading provider of navigational aids, communication and meteorological equipment.

On arrival, the team met with the Managing Director of AVSATEL, Mr Mag Georg Eder, and the General Manager (Technical), Mr Greg Eden.

The AVSATEL team took the NiMet team through a presentation detailing their services, and portfolio of projects handled across airports and other locations in Nigeria. The NiMet team also inspected the company's technical workshop.

The NiMet team included Engr. Abdulkareem Hamid Olayinka, the Director of Engineering and Technical Services, Barr. Shola Gabriel, the Director of Legal Services and Company Secretary and Prof. Vincent Ezikornwor Weli, the Director of Weather Services.







# MUHAMMADU BUHARI METEOROLOGICAL INSTITUTE OF SCIENCE AND TECHNOLOGY, KATSINA

## WMO CLIMATE CHANGE RESOURCE CENTER

**ADDRESS:** KM 4 Katsina - Kano Road, Opposite Federal Pay Office,  
IBB Expressway, Katsina, Katsina State - Nigeria.

**OFFICE OF THE REGISTRAR  
(ACADEMIC DIVISION)**

## ADMISSION INTO NATIONAL DIPLOMA PROGRAMME FOR 2023/2024 ACADEMIC SESSION

The Muhammadu Buhari Meteorological Institute of Science and Technology, (MBMIST) Katsina invite application from qualified candidates for admission into National Diploma (ND) Meteorological and National Diploma (ND) Climate Change Science for 2023/2024 Academic Session.

### ADMISSION REQUIREMENTS

- |  |   |
|--|---|
| <p>A. The requirements for Admission into the National Diploma (ND) METEOROLOGY Programme are:</p> <ol style="list-style-type: none"><li>A minimum UTME Score of 110.</li><li>A minimum of five (5) Credit passes in SSCE, WAEC, GCE, NECO NABTEB or equivalent in not more than two (2) sittings. The subject must include: English Language, Mathematics, Physics and two (2) other subjects such as Chemistry, Biology/Agriculture &amp; Geography.</li></ol> | <p>B. The requirements for Admission into the National Diploma (ND) CLIMATE CHANGE SCIENCE Programme are:</p> <ol style="list-style-type: none"><li>A minimum UTME Score of 110.</li><li>A minimum of five (5) Credit passes in SSCE, WAEC, GCE, NECO NABTEB or equivalent in not more than two (2) sittings. The subject must include: English Language, Mathematics, Geography and two (2) other subjects such as Chemistry/Physics, Biology/Agriculture, Geography, Economics, Government/History/Civic Education.</li></ol> |
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### NOTE

- Candidates who did not choose Muhammadu Buhari Meteorological Institute of Science and Technology, Katsina are advised to purchase a green-card and select the Institute as their First Choice on the JAMB Portal. After which he/she can log into the Institute Website <http://www.mbmist.edu.ng/application> and provide basic information.
- Candidates should upload their 'O' Level on their JAMB Profile.

*For further enquiries/assistance, please contact:*

**+2348030701277, +2348066169755, +2348067597555, +2348063309424, +2349040838205**

**email: [registrar@mbmist.edu.ng](mailto:registrar@mbmist.edu.ng)**

**Signed: REGISTRAR**