DR MAKINDE AKEEM ADEKUNLE

i. Biography

Dr Makinde Akeem Adekunle bagged his B.Sc.(Water Resources Management and Agrometeorology- 2002),M.Sc. and Ph.D. Agro-meteorology (2007 & 2011, respectively) from Federal University of Agriculture, Abeokuta. Within this general field of Agrometeorology, he specializes in estimation of water availability for agriculture, micro climatic modifications, climate variability and crop production and Farming system Research. Dr Makinde top skills include Proficiency in the use of SAS analyst tools, Preparation and processing of samples and entry of test results into excel, Management of field preparation, planting, harvesting, data collection and analysis of field crops.

As Lecturer and researcher, he has worked on different agrometeorological issues like estimation of water availability for agriculture, micro climatic modifications and climate variability and crop production over the past 10 years. Working on different aspects of agrometeorological issues has helped him to come up with recommendations by combining techniques used in many different fields. During these years he has developed many skills, like how to design a project, how to design an experiment, working with different instruments, writing papers, etc. The works he has published has been widely cited within the field of environmental science and related disciplines. Since January 2014, Dr Makinde has been working as a Lecturer and Researcher of Water Resources Management and Agrometeorology at Federal University of Agriculture, Abeokuta, Nigeria.

ii. Personal Information

(i) Name in Full: **MAKINDE** Akeem Adekunle

(ii)	Date of Birth:	20th April, 1974
(iii)	Place of Birth:	Ibadan, OyoState
(iv)	Sex:	Male
(v)	Marital Status:	Married
(vi)	Nationality:	Nigerian
(vii)	Town and State of Origin:	Ibadan, Oyo State

iii. **Department:** Water Resources Management and Agrometeorology

iv. **E-mail address**: makindeaa@funaab.edu.ng ; hakmak4u@yahoo.com

v. **Phone Number**: +2348033570500

vi. **Rank:**Senior Lecturer

vii. **Designation:**Senior Lecturer

viii. **Researchgate Address**: Akeem Adekunle Makinde (researchgate.net)

ix. **Linkedin Address**: Akeem_Adekunle_Makinde

x. **Google Scholar Profile**:Akeem Adekunle Makinde - Google Scholar

xi. ORCID Number: Akeem Adekunle Makinde (0000-0002-5116-5580) - ORCID

xii. Qualifications:

- Bachelor of Agrometeorology and Water Resources Management
  Federal University of Agriculture, Abeokuta 2002
- M. Sc. Agrometeorology
  Federal University of Agriculture, Abeokuta 2007
- Ph.D. Agrometeorology
  Federal University of Agriculture, Abeokuta. 2011

xiii. Membership of Professional Bodies

Member, Horticultural Society of Nigeria.

Member, Nigeria Meteorological Society

Member, International Society of Agrometeorologist

xiv. Award Received:

Federal Government Scholarship Award, 2000/2001 Academic Session

COMMENDATION

Letter of Commendation by the Registrar on behalf of Vice-Chancellor, for outstanding performance while serving as the College Representative in the Centre for Innovation and Strategy in Learning and Teaching (CISLT) dated July 11, 2017.

Letter of Appreciation by the Registrar on behalf of Vice-Chancellor, for the excellent performance and selfless service rendered as an Academic Supervisor to FPY students dated February 1, 2021.

Letter of Commendation by the Registrar on behalf of Vice-Chancellor, for dedication to duties as a Member of Business Committee of Postgraduate school Board dated December 5, 2022.

xv. Research Conducted

i. **Makinde, A.A. (2002):** Assessment of Dam Safety Using Pizometers, A case of OyanDam Project. BSc Research Report submitted to the Department of Water Resources Management and Agrometeorology, Federal University of Agriculture, Abeokuta(FUNAAB). 55p

ii. **Makinde, A.A. (2007):** Hydrothermal Effects on the Performance of Maize-Cucumber Intercrop in a Tropical Wet-and-Dry Climate. M.Sc. Dissertation, FUNAAB, Nigeria.80p

iii. **Makinde, A.A.** (2011): Agroclimatic Potential of The Cultivation of Okra in Mixtures with Sorghum and Maize in a Forest-Savanna Transition Zone of Nigeria. Ph.D. Thesis, Federal University of Agriculture, Abeokuta, Nigeria. 180p.

xvi. Major Conferences Attended with Papers Read

i. 40thConference of Horticultural Society of Nigeria, Jalingo, 6 – 10 November, 2022
Paper Presented
Sensitivity of Okra Growth Indices to Flooding Conditions. 8 p

ii. 2nd African Union Scientific and Innovation Council Congress, Abuja, 23-27 November,2019
Paper Presented
Assessment of Response of Tomato varieties to Different Water Regimes 5 p

iii. 30th Conference of Nigerian Meteorological Society, Abeokuta, 21 – 24 November, 2016.
Paper Presented
Global Economic Crisis and Market Trend in Local Timber in Ogun state,Nigeria: The climate change advantage.13 p

iv. 28th Conference of Nigerian Meteorological Society, Abuja, 1- 4 December, 2013.
Paper Presented
a. Climatic Parameters and Cattle Milk Production in a Tropical Wet and Dry Climate of Nigeria. 5 p

b. Response of Precipitation Indices to Climate Change in Three Agroecological Zones of Nigeria. 4 p

v. 29th Conference of Horticultural Society of Nigeria, Makurdi, 24 – 29 July, 2011
Paper Presented
Rainfall Harvesting; A sustainable Water Management Alternative for Food Security in Nigeria. 6 p

xvii. Journal Article in Print:

f1. **Makinde, A.A.**, Bello, N.J., Olasantan, F.O., and Adebisi, M.A. (2009): Hydrothermal effects on the performance of maize and cucumber intercrop in a tropical wet and dry climate in Nigeria ***African Journal of Agricultural Research***, 4(3): 225–235. https://www.scopus.com/authid/detail.uri?authorId=55749480500. Published by Academic Journals. Scopus indexed.

2. **Makinde A.A.;** Bello, N.J and Eruola, A.O (2010)**:** Effects of Phenological Rainfall Pattern on the Performance of Cucumber in Maize-CumcuberIntercroped in a Tropical Wet-and-Dry Climate of Nigeria. ***Journal of Meteorology and Climate Science***, 8(1):22-28. Published by Nigerian Meteorological Society, Nigeria. Available athttps://www.ajol.info/index.php/naj/article/view

f3. Ufoegbune, G.C.; Bello, N. J.; Ogunsakin, A.O.;Eruola, A.O.; **Makinde, A.A** and Amori, A.A**.** (2011): Assessment in the variations of water uptake of two horticultural crops *Amaranthus and Celosia* at Federal University of Agriculture, Abeokuta, Nigeria. ***Journal of Biological and Chemical Research***,28(1): 78-84. Published by Society for Advancement of Science, USA. Available at https://www.scopus.com/record/display.uri?eid=2-s2.0-84898409220 origin=inward&txGid=1cbd33223600f457e89b9c59cda34653. Scopus indexed

4. **Makinde, A. A.;** Bello, N. J.; Ufoegbune,G. C.; Eruola,A. O. and Kazeem, H.G. (2012): Agroclimatological Indices and Performance of Okra in Mixtures with Sorghum and Maize in Forest-Savanna Transition Zone of Nigeria.***Journal of Meteorology and Climate Science***,10(1):5-15. Published by Nigerian Meteorological Society, Nigeria. Available athttps://www.ajol.info/index.php/jmcs/issue/view/9804

f5. **Makinde, A. A.**; Bello N. J.; Olasantan, F. O and Eruola A. O. (2012): Agroclimatic potential for cultivation of two sorghum cultivars in mixtures with okra and maize in a forest-savanna transition zone of Nigeria. ***Italian Journal of Agrometeorology*****,** 14 (3), 35-48. Published by Elsevier B.V., Online at https://www.scopus.com/record/display.uri?eid=2-s2.0-84878324072&origin=inward&txGid=f76363a61bea905b8054ed16f3152922. Scopus indexed

6. **Makinde, A.A.**; Oluwasemire, K.O.; Akintola, O.A and Adeniyi, H.A(2012): Seasonal Variability and Row arrangements Effects on the Performance of Groundnut (*Arachis hypogea* L.) and okra *(Abelmoscus esculentus)* Intercrop in a Forest-Savanna Transition Zone of Nigeria. ***Journal of Applied Agricultural Research***, 4(2): 111-120, Published by Agric Research Council of Nigeria, (ARCN).

[f]7. Ufoegbune, G.C.; Bello, N. J.; Eruola, A.O.; A. A.**.** Amori and **Makinde, A.A** (2012): Effect of moisture variation on dry season production of beans at Federal University of Agriculture, Abeokuta, Nigeria. ***Journalof Biological and Chemical Research***. 29 (2): 254-261. Published by Society for Advancement of Science, USA. Available at https://www.scopus.com/record/display.uri?eid=2-s2.0-84898409220&origin =inward &txGid= 1cbd33223600f457e89b9c59cda34653. Scopus indexed

[f] 8. Eruola, A.O.**;** Bello, N. J.; Ufoeghune,G.C, and **Makinde, A.A** (2013): Effect of climate variability and climate change on crop production in the tropical wet-and –dry climate. ***Italian Journal of Agrometeorology,*** 17 (1): 17-22. Published by Elsevier B.V. Online at http://agrometeorologia.it/documenti/Rivista2013_1/AIAM_2013_01_017eruola.pdf. Scopus indexed

[f] 9. Ufoegbune, G.C., Bello, N.J., Ogunsakin, A.O.,**Makinde, A.A.** and Amori, A.A. (2013): Assessment in the variation of water uptake of two horticultural crops: Amaranthus and Celosia at Federal University of Agriculture, Abeokuta, Nigeria. ***World Applies Science Journal***, 28(11), 1843-1846. Available at https://www.scopus.com/authid/detail.uri?authorId=55749480500.Scopus indexed

10. Ufoegbune, G.C.; Atanlay, P.A.; Eruola, A.O.; **Makinde, A.A** and Ojekunle, Z.O. (2016): Geographical Information System (GIS) Application for Planning and Improvement of Public Water Supply in Ota, Ogun State, Nigeria. ***Journal of Applied Sciences and Environmental Management***, 20 (2): 1105-1111. Published by The University of Port Harcourt, Nigeria.

11. **Makinde, A.A**.; Eruola, A.O.; Ufoegbune, G.C.; and Amori, A.A. (2016): Seasonality and Climatic Period Effects on Cucumber Evapotranspiration and Irrigation Water Requirement. ***Applied Tropical Agriculture,*** 21(3):112-115. Published by Federal University of Technology, Akure, Nigeria. Available online at https://www.futa.edu.ng/journal/home/volumep/5/11

[f]12. Ayoola, K.O.; Eruola, A.O.; Adejuwon, J.O and **Makinde, A.A.** (2016): Effect of water supply methods, variety selection and their interaction on growth and yield of

kenaf in the tropical wet-and-dry climate of Nigeria. ***Italian Journal of Agrometeorology,*** 21 (2):45-52. Published by Elsevier B.V. Available at http://agrometeorologia.it. Scopus indexed

13. Eruola, A.O.; Ayoola, K.O.; Adejuwon, J.O.; Busari, M.A and **Makinde, A.A.** (2016): Evaluation of Reference-Crop Evapotranspiration Models, Crop Evapotranspiration Methods and Water Supply Methods for the Determination of Crop Coefficient of Kenaf. ***Applied Tropical Agriculture,*** 21(3):83-89. Published by Federal University of Technology, Akure, Nigeria. Available online at https://www.futa.edu.ng/journal/home/volumep/5/11

14 Eruola, A.O.; Awomeso,J.A.; Eruola, A.O.; **Makinde, A.A** and Ayoola, K.O. (2016): Impact of Upstream Industrial Effluents on Irrigation Water Quality, Soils and Plants in Alakia Area of Ibadan. ***Journal of Applied Sciences and Environmental Management***, 20(3):625-632. Published by The University of Port Harcourt, Nigeria.

15. Eruola, A.O.; **Makinde, A.A.;**Eruola, A.O.; Awomeso, J.A. and Amori, A.A., (2016): Investigation of the Effect of Double Rings Infiltrometer Dimension on Infiltration Rate.***Gashua Journal of Irrigation and Desertification Studies,*** 2(2): 204-213. Published by Federal University,Gashua, Yobe State, Nigeria. Available online at http://www.gjidsfugashua.org.ng

16. Eruola, A.O.; **Makinde, A.A.;**Eruola, A.O.; Ojekunle, .Z.O.; Awomeso, J.A. and Amori,A.A., (2017): Correlation of Climate Variables with Water Quality Indicators of Ogun River, Southwest Nigeria.***Nigerian Journal of Hydrological Sciences,*** 5: 33-39. Published by Nigeria Association of Hydrological Sciences (NAHS).

17 **Makinde, A. A**.; Eruola, A.O**.** and Ojekunle, Z.O. (2018):Response of soil moisture content to sampling depth and canopy types in a tropical climate, Southwest Nigeria. ***Nigeria Agricultural Journal,*** 49(2):34-38**.**Published by the Agricultural Society of Nigeria,Available athttps://www.ajol.info/index.php/naj/article/view/189417.

18. Eruola, A.O.,Atilola, F., **Makinde, A.A.**, Ayoola, K. and Nwamini, L.(2019): Determination of permeability of soils from FUNAAB agricultural land use, using improvised constant head permeameter. ***Journal of Agricultural Science and Environment*****,** *ASSET International Journal*. 19 (1&2): 92 -101. Published by University of Agriculture, Abeokuta. Nigeria**.**

19. **Makinde, A.A.;** Eruola, A.O.; Ufoegbune, G.C. and Ojekunle, Z.O. (2019): Sensitivity assessment of maize (Zea mays l.) Cultivars growth parameters to agrometeorological indices in Abeokuta, southwest Nigeria.***Agro-Science,*** *1*9(1): 39-

44. Published by University of Nigeria, Nsukka, Nigeria. Available online at https://dx.doi.org/10.4314/as.v18i1.6

20. **Makinde A.A.;** Eruola, A.O.; Ufoegbune, G.C.; and Rabiu Y. (2019): Assessment of Rainwater Supply and Cultivation of Okra (Abelmoschus *esculentus*) in Mixtures with Sorghum (Sorghum *bicolor*) and Maize (*Zea mays*) in a Forest-savanna Transition Zone of Nigeria. ***Samaru Journal of Agricultural Education,***8(2):60-74.Published by Ahmadu Bello University, Zaria.

21. Ufoegbune, G.C.; Ayodele, D.O.; Eruola, A.O.; **Makinde, A.A.;**Ojekunle, Z.O. and Ilevbaoje,O.O. (2019): Geospatial Design of Optimal Water Distribution Network in Ado-Ekiti, Ekiti State. ***Journal of Applied Science and Environmental Management.***23(7):1207-1212.Published by The University of Port Harcourt, Nigeria. Available online at www.dx.doi.org/10.4314/jasem.v23i7.3

22. Eruola A.O, **Makinde A.A**, Ladejobi Y.F, Ayoola K.O, and Nwamini, L.O (2020): Periodic Evaluation of Atmospheric Dew and Dust in Iso-olu Area of Abeokuta, Nigeria. ***Journal of Meteorology and Climate Science,***18 (1): 1-6. Published by Nigerian Meteorological Society (NMETs)

23. Eruola, A. O.; **Makinde**, **A. A.;** Eruola, A. O. and R. Oladele. (2020): Water Quality Assessment of Owiwi River for Potential Irrigation of Vegetables. ***Nigerian Journal of Technology*****,** 39(1):293-300. Published by University of Nigeria, Nsukka. Available online at www.nijotech.com http://dx.doi.org/10.4314/njt.v39i1.32

*f*24 Eruola, A.O., Kassim, H., **Makinde, A**., Ayoola, K and Nwamini, L. (2020): Assessment of water productivity of sorghum- kenaf- okra intercrop. ***Journal of Biological and Chemical Research****,* 37 (2A): 66- 71. Published by Society for Advancement of Science, USA. Available at Available at http://www.jbcr.co.in/. Scopus indexed

25 Eruola, A.O.,**Makinde, A.A**.,Ladejobi, Y.F., Ayoola, K.O. and Nwamini, L.O.(2020):Response of some selected crops to rainfall exceedance anomaly. ***Nigerian Journal of Scientific Research****,*19 (4): 271- 277. Published by Ahmadu Bello University Zaria, Nigeria, Available online at *abu.edu.ng; ISSN-0794-0319*

*26. Eruola, A.O.;**Makinde, A.A**.;Eruola, G.A. and Ayoola, K.O. (2021): Assessment of therainfall exceedance in Nigeria. ***Nigerian Journal of Technology (NIJOTECH)****,*40 (4): 751-761**.** Published byFaculty of Engineering, University of Nigeria, Nsukka.

*27. Eruola, A.O.; **Makinde, A.A.**; Eruola, G.A.; Ayoola,K.O. and Nwamini, L.O. (2021):Effect of float-weight on discharge measurement.***Journal of Engineering and***

Engineering Technology, 15(1):98-103. Published by School of Engineering and Engineering Technology, Federal University of Technology, Akure, Nigeria. Available online at www.futajeet.com

*28. Rabiu,Y; **Makinde, A.A.**; Eruola, A.O, and Yamusa, A.M. (2021): Response of groundnut to thermal indices as influenced by intercropping and mulching in tropical wet and dry climate in Nigeria. ***Nigerian Journal of Horticultural Science*** 26 (1): 116-122. Published by Horticultural Society of Nigeria.

*f29. **Akeem Makinde**. (2022). Sensitivity of Okra Growth Indices to Various Moisture Conditions. ***American Journal of Agricultural and Biological Sciences***, 17 (1): 51.57. Available at https://thescipub.com/pdf/ajabssp.2022.51.57.pdf. Published by Science Publications New York.

*30. Kassim, H. G., Bello, N. J., Ufoegbune, G. C., **Makinde, A.A**. and Olasantan, F.O. (2022): Effects of Rainfall Variability on Moisture Availability for Cultivation of Sorghum, Kenaf and Okra in Tropical Wet-and Dry-Climatic Western Zones of Nigeria. ***Nigerian Journal of Horticultural Science,*** 26 (4): 169-176. Published by Horticultural Society of Nigeria.

f = Articles in foreign Journals