

OLADOSU, Olakunle Rufus (Ph.D)



African Regional Centre for Space Science and Technology Education in English, Ile-Ife, Nigeria

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Research and Interest

- Space applications to weather and climate.
- Surface energy and flux measurements using micrometeorological techniques.
- Impacts of turbulent exchange processes on weather, climate and ecology.
- Climate Change

My research interests lie on the use of satellite data to study *land-atmosphere interaction*, where greenhouse gases, pollutants, water, energy, and momentum are exchanged between the land and the atmosphere, and their impact on weather and climate.

My research focus has been on surface energy balance studies and measurements using micrometeorological techniques. I have used eddy correlation and Bowen ratio methods to estimate sensible and latent heat fluxes over surfaces ranging from bare surface to farmlands, in Nigeria. These studies have contributed to the understanding of the controls of energy partitioning over these surface types.

My future research hopes is to extend my research using remote sensing and GIS along with observations to better understand the surface turbulent exchange processes and their impacts on weather and climate.

MEMBERSHIP OF PROFESSIONAL BODIES:

Member Nigeria Meteorological Society (NMS)

Member Nigeria Institute of Physics (NIP)

Member Young Scholars' Network (YSN)

PUBLICATIONS

(a) Thesis/Dissertation:

- 1). Heat conduction in a Sandy-Clay-Loam soil at Ile-Ife, Nigeria. (*M.Sc., thesis*).
- 2). Micrometeorological measurement of surface energy balance over the tropical site at Ile-Ife, Nigeria. (*Ph.D. thesis*)

(b) Published Articles:

1. O.O. Jegede, M. Mauder, E.C. Okogbue, T.F. Foken, E.E. Balogun, J.A. Adedokun, E.O. Oladiran, J.A Omotosho, A.A. Balogun, **O.R. Oladosu**, L.A. Sunmonu, T.O. Aregbesola, E.O. Ogolo, K.O.Ladipo, S.I. Ohamobi, E.O. Gbobaniyi, and G.O. Akinlade, **2004**: The Nigerian micrometeorological Experiment (NIMEX-1): An Overview. *Ife Journal of Science*, vol 6, no.2, 191-202.
2. **Oladosu, O.R.** and O.O. Jegede, **2005**: Variation of thermal properties in relation to the moisture content in a fine sandy-clay-loam soil at Ile -Ife, Nigeria. *MAUSAM*, vol. 56, no 4, pp. 883-892.
3. **Oladosu, O.R** and O.O Jegede, **2005**: Thermal properties of an Agricultural site in Ile- Ife, Nigeria. *Nigeria Journal of pure and applied Physics*, vol.4, no. 1, pp. 71-74.
4. **Oladosu, O.R.**, and L.A.Sunmonu, **2005**: Soil Heat Flux of an Agricultural Farmland. *Journal of Science and Technology Research*, vol. 4, no 3, 16-20.
5. O. O. Jegede **and Oladosu, O.R. 2005**: Heat Conduction in a fine Sandy-Clay-Loam Soil. *Nigerian Journal of Space Research*, vol. 1, 108-120.
6. Adediji A.T, **Oladosu, O.R.**, Ojo, J. S. and A.S. Adekola, **2006**: Computed transmission through rain on earth-space communication in Nigeria. *Journal of Research in Physical Science*, 2(1), pp. 60-70.
7. **Oladosu, O.R**, I.A. Balogun, and A.T. Adediji, **2006**: On the measurement of net radiation at an Agricultural site, Ile-Ife, Nigeria. *Journal of Scientific and Industrial studies*, Vol. 4 (3), pp. 60-62.

8. Adediji A.T, M.O. Ajewole, S. E. Falodun and **O.R. Oladosu, 2007**: Radio refractivity measurement at 150 m altitude on TV tower in Akure, south-west Nigeria. *Journal of Engineering and applied sciences*, 2(8), pp. 1308 - 1313.
9. **Oladosu O.R**, O.O Jegede, L.A. Sunmonu, and A.T. Adediji, **2007**: Bowen ratio estimation of surface energy fluxes in a humid tropical agricultural site, Ile-Ife, Nigeria. *Indian Journal of Radio and Space Physics*, 36, pp. 213 – 218.
10. **Oladosu, O.R**, and J.S. Ojo, **2009**: Estimation of Surface Fluxes of Radiation and heat at Ile-Ife during 5-8 March, 2007. *Nigerian Journal of Space Research. Vol. 6. pp. 33-39*
11. **Oladosu O.R**, and O.O Jegede, **2010**: Measurement of surface energy balance over a humid tropical site, Ile-Ife, Nigeria. *Indian Journal of Science and Technology, Vol. 3. no6, pp. 659 - 662. India.*
12. **Oladosu O.R.**, **2008**: Surface Energy balance measurements at three humid tropical sites in West Africa, *Nigeria Journal of pure and applied Physics*, vol. 5, no.1 (*In press*).

(c) Published Conference Proceedings:

1. **Oladosu O.R**, M.A Ayoola, E.F Nymphas, O.M Adeniyi G.I Olatona and L.A Sunmonu, **2004**: Soil thermal properties at the Nimex-I site in Proceeding of the workshop on the Nig. Micro Expt (NIMEX-1), (Edited by O.O Jegede, E.C. okogbue and E.E Balogun), Comfort press & publishing Co. Lagos, Nigeria, 44-46
2. **Oladosu O.R**. and O.O. Jegede, **2004**: Soil temperature and thermal properties in Proceeding of the workshop on the Nig. Micro Expt (NIMEX-1), (Edited by O.O Jegede, E.C. okogbue and E.E Balogun), Comfort press & publishing Co. Lagos, Nigeria, 23-24.
3. **Oladosu O.R.**, **2007**: A Review note on Impacts of Human pressure and Climate variability on Tropical Forests in Proceeding of International Conference on Impacts of extreme weather and climate on socio-economic development in Africa, Akure, Nigeria. pp. 218-222.

4. **Oladosu O.R., 2008:** Observations of surface energy balance in cloudy tropical conditions at Ile-Ife, Nigeria in Proceeding of First international conference on research and development, Accra, Ghana, pp. 63-69

5. **Oladosu O.R., 2009:** Investigation of surface energy budget over a humid tropical site at Ile-Ife, Nigeria: A comparison of Eddy covariance and Bowen ratio Systems in Proceeding of Nigerian Meteorological Society international conference on climate change and sustainable development research and development, Osogbo, Nigeria pp. 122-124.

6. Ojo, J.S. and **Oladosu O.R., 2009:** Long-term trends of Minimum, Maximum and Mean surface temperature over the Northern and Southern Nigeria in Proceeding of Nigerian Meteorological Society International conference on climate change and sustainable development research and development, Osogbo, Nigeria pp. 98- 102.

CONFERENCES AND SEMINARS ATTENDED WITH DATES:

- First international conference on research and development, Accra, Ghana, 23-25 Nov., **2008)**
- International Conference on Impacts of extreme weather and climate on socio-economic development in Africa, Akure, **Nigeria** (11-15 Nov., **2007**).
- Third Young Scholars' Network workshop on modeling land use-decision making. Bristol, **United Kingdom** (June 2-5, 2007).
- First International Conference on Carbon Management at Urban and Regional levels, **Mexico** (September, 4 – 8, **2006**).
- Second Young Scientists' Network meeting, **Mexico** (September, 9-10, **2006**)
- International conference on Science and Technology, Akure, **Nigeria** (Aug., **2005**)
- ICTP Young Collaborative Research Programme, Trieste, **Italy** (Sept, 2003 - Jan, **2004**).
- Seminars on Development and Application of Isotope Tracer Diagnostic in Regional Climate Model Trieste, **Italy** (Sept.22- 29, **2003**).

HOBBIES

Singing and games.....