

## **Joseph Mwalichi Ininda**

### **A: PERSONAL DETAILS**

Nationality: Kenyan  
Date and place of birth: 6th October, 1957 / Vihiga District, Kenya  
Marital Status: Married  
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### **B: EDUCATION RECORD**

- 1983: Completed the Bachelor`s degree (Bachelor of Science) at the University of Nairobi and passed with 2nd Class Honors degree (Upper Division).
- 1988: Was awarded MSc in Meteorology at the University of Nairobi, Kenya.
- 1995: Was awarded Ph.D in Meteorology at the University of Nairobi, Kenya.

### **C: EMPLOYMENT RECORD**

- 1: 1979: Taught at Lunyerere Secondary School
- 2: 1983: Taught at Kessup Girls Secondary School
- 3: 1983: Employed in the Ministry of Water as Hydrologist
- 4: 1985-88 Employed in the Department of Meteorology as Graduate Assistant
- 5: 1988 - 1995 Employed as Tutorial Fellow in the Department of Meteorology, University of Nairobi.
- 6: 1995 -2000 Employed as Lecturer in the Department of meteorology, University of Nairobi.
- 7: 2000- to present; Employed as Senior Lecturer in the Department of meteorology, University of Nairobi.

### **D: RESEARCH AND PUBLICATIONS**

- Ininda J M. 1987: Spatial and Temporal Characteristics of Droughts in Eastern And Southern Africa. *MSc Thesis. University of Nairobi*.
- Ininda J M., B. Beselegne and A. Befekadu 1987: The characteristics of rainfall in Ethiopia and its relationship to El-Nino Southern Oscillation. *Proceeding of the First Technical Conference on Meteorological research in Eastern and Southern Africa, Nairobi, Kenya*
- Beselegne, D, J M Ininda and L J Ogallo, 1987: Rainfall Characteristics in Ethiopia. *Ibid*.
- Ininda J M 1989: The Frequency and persistence of droughts in Eastern and Southern Africa. *1st Annual workshop on Meteorological application in Kenya, 25th - 28th, Sept., 1989 Nairobi, Kenya*.
- Ininda J M and L J Ogallo 1989: Relationship between Rainfall anomalies in eastern and Southern Africa and El-Nino Southern Oscillation. *Ibid*.

- Ininda J M, D P Rowell and N M Ward 1993: The Impact of the Sea Surface Temperature Anomalies on the Long rains in East Africa. *Proceeding of the African Meteorology Society Conference. February 1993, Nairobi Kenya.*
- Rowell D. P, J M Ininda and N M Ward 1994: The Impact of the global Sea Surface Temperature Patterns on seasonal Rainfall in East Africa. Proce. Inter. *Conference on monsoon variability and prediction. Trieste, Italy 9 - 13 May, 1994.*
- Ininda J M 1994: Numerical Simulation of the Influence of SST anomalies on the East Africa Seasonal Rainfall. *PhD Thesis, University of Nairobi, Kenya.*
- Ininda J M 1994: Simulation of the diurnal variation in the atmospheric variables over Eastern Africa by GCM. Workshop on Meteorology and application in Kenya. Nairobi, Kenya.
- Ininda J.M. 1998: Simulation of the impacts of sea surface temperature (SST) anomalies on the short rains over East Africa. *J. Africa Met. Soc., Vol3, 127 - 139*
- Ininda J.M. 1998: The influence of the sea surface anomalies on the March - May rainfall over East Africa. *Workshop on El-Nino phenomenon and response farming strategies. Njoro, Egerton University, 14th - 16th July, 1998.*
- Ininda J.M. The Teleconnection between El-Nino / Southern Oscillation and extreme rainfall over East Africa. *Workshop on El-Nino phenomenon and response farming strategies. Njoro Egerton University 14th - 16th July 1998.*
- Ininda J M. and J.N. Kihuga 1999: Relationship between Interannual Rainfall variability over Western Kenya and The Southern Oscillation. *J. African Met Soc. Vol. 4, 9-16*
- Ininda J M. 1999: The influence of the Global sea surface Temperature on the interannual variation of March to May Rainfall over East Africa. *J. African Met Soc. Vol. 4, 95-114*
- Ininda J M. 2002: The relationship between the global sea surface temperature anomaly patterns and the interannual variability of short rains over east Africa. In *J. African Met Soc.*
- Ininda J.M. 2004 Weather Analysis. Lecture Notes for Distance Learning. University of Nairobi.
- Inindas J.M. 2005 Tropical Meteorology I Lecture Notes for Distance Learning University of Nairobi
- Ininda J.M. 2006 Dynamic Meteorology II Lecture Notes for Distance Learning University of Nairobi
- Ininda J.M. 2006: Introduction to Atmospheric Science. Lecture Notes for Distance Learning University of Nairobi
- Okoola, R.E, Camberline P Ininda J.M 2006: East Africa Coastal wet spells during the short rains and the anomalous extreme wet spell event of October 1997 (submitted to Journal of Meteorology and Atmospheric Physics)
- Ininda J.M. 2005 Predictability Potential of seasonal Rainfall over Kenya Using Quasi-Biennial Oscillation Index The seventh Kenya Meteorological Society Workshop on Meteorological Research and Applications and Services. Nairobi 17-19 October 2005.

- Ininda J.M: The environmental and climatic factors that influence the Quality and Quantity of well water in Matunda Location Uasin Ngushu District in Kenya. The seventh Kenya Meteorological Society Workshop on Meteorological Research and Applications and Services. Nairobi 17-19 October 2005.
- Ininda J.M. and Etemesi 2005: Verification of seasonal Rainfall forecast in Kenya during the Period 1998-2003. The seventh Kenya Meteorological Society Workshop on Meteorological Research and Applications and Services. Nairobi 17-19 October 2005.
- Ininda J.M. and Kerandi N.M 2003: Utility of Weather Information dissemination by Media Industry. Proceedings of the Sixth Kenya Meteorological Society. Workshop on Meteorological Research and Applications and Services. Mombasa, Kenya 29<sup>th</sup> September to 3<sup>rd</sup> October 2003 Nairobi 17-19 October 2005.
- Ocholla M.A and Ininda J.M. 2003: Influence of Weather on Meningitis Proceedings of the Sixth Kenya Meteorological Society. Workshop on Meteorological Research and Applications and Services. Mombasa, Kenya 29<sup>th</sup> September to 3<sup>rd</sup> October 2003 Nairobi 17-19 October 2005.
- Ininda J.M. and Adosi J. 2003: Seasonal and Interannual Variability of Carbon dioxide and Its Relationship with SST. Proceedings of the Sixth Kenya Meteorological Society. Workshop on Meteorological Research and Applications and Services. Mombasa, Kenya 29<sup>th</sup> September to 3<sup>rd</sup> October 2003 Nairobi 17-19 October 2005.
- Mutemi N.J., Ogallo .L.A., J.M. Ininda 2003: The Predictable patterns and Modes Of East Africa Seasonal Rainfall Following Global SST and ENSO Phase Forcing. Proceedings of the Sixth Kenya Meteorological Society. Workshop on Meteorological Research and Applications and Services. Mombasa, Kenya 29<sup>th</sup> September to 3<sup>rd</sup> October 2003 Nairobi 17-19 October 2005.
- Ininda J.M. Simulation of the Impact of Deforestation on the Lake Victoria basin.
- Ininda 2005: Rainfall Trends and Periodic fluctuations over the Lake Victoria basin.

## **CURRENT RESEARCH ACTIVITIES**

1. Development of Regional Numerical Prediction Model for Eastern Africa.
2. Prediction of seasonal rainfall over Eastern Africa using Statistical models.
3. Simulation of the East Africa rainfall using General Circulation Model (GCM).
4. Prediction of the El-Nino Southern Oscillation Cycle