

CURRICULUM VITAE

PROF LABAN AYIEKO OGALLO

1. BIODATA

- (i) Office Address: University of Nairobi
Meteorology Dept., P.O. Box 30197 GPO.
Nairobi, Kenya
- (ii) Home Address: P.O. Box 52738 Code 0200
City Square, Nairobi, Kenya
- (iii) Email: logallo@uonbi.ac.ke and logallo50@gmail.com
- (iv) Marriage status: Married
- (v) Nationality: Kenyan

2. EDUCATION HISTORY

- (i) B.Sc. Hons (Maths, Physics and Meteorology, 1975); M.Sc. (Meteorology, 1977); PHD (Meteorology, 1980)
- (ii) Postgrad. Diploma in Operational Forecasting (East African Institute for Met. Training and Research, 1976)

3. Outstanding professional Awards

1982 WMO Award for the encouragement of Young scientists
2007 Part of the IPCC Scientists awarded the 2007 Nobel Peace Prize

4. PROFESSIONAL AREAS OF INTEREST:

Climate modelling and Prediction; early warning; Climate Change; Climate information and application services; and Capacity Development

5. POSITIONS HELD:

1995 to date: Full Professor, Department of Meteorology, University of Nairobi
2014 - 2018: Coordinator IGAD and UNDP Disaster resilience capacity building Project
2000- 2014 Director, IGAD Climate Prediction and Applications Centre
1996-2000 WMO Geneva (1997 and 1998: Coordinator, WMO Climate Applications CLIPS Programme; and 1998 and 1999: Scientific support to WMO Secretary General (SG) Office).
1995-1996 Chief executive officer (CEO/ Secretary) to Kenya National Council for Science and Technology
1988-1994 Associate Professor, Department of Meteorology, University of Nairobi
1988-1994 Chairman Department of Meteorology, University of Nairobi
1986-1988 Senior Lecturer, Department of Meteorology, University of Nairobi.
1979-1985 Lecturer, Department of Meteorology, University of Nairobi.
1976-1978 Tutorial Fellow, Department of Meteorology, University of Nairobi
1975 Meteorologist, E. African Met. Services

6. RELEVANT EXPERIENCES AND PROFESSIONAL SERVICES

6.1 2015-18: Coordinated IGAD/UNDP project to build capacity for 11 countries in the Greater Horn of Africa to maximize the use of climate products and services in strengthening regional Disaster resilience capacity in response to the 2011 Decision of the summit IGAD and EAC Heads of States and Governments on the Horn of Africa Drought crisis and Commitment to Sustainable Solution

6.2 2000-2014: Director IGAD Climate Prediction and Application Centre (ICPAC)

- Was the founding Director and Chief Executive Officer (CEO) for IGAD Climate Prediction and Application Centre (ICPAC). ICPAC is an institution of the Intergovernmental Authority on Development (IGAD), with mission to foster, through a whole set of programs, sub-regional and national capacity for climate information, prediction products and services, early warning, and related applications as a contribution to sustainable development in the IGAD sub-region. The member countries include 11 the IGAD and East Africa Community (EAC) member countries: Djibouti, Eritrea, Ethiopia, Kenya, Somalia, South Sudan, Sudan , Uganda , Burundi, Rwanda and Tanzania
- Nurtured evolution of ICPAC from a regional UNDP/WMO project for Drought monitoring to become one of the major regional climate centers in the world today, which has the privilege of being designated as a WMO regional Climate center.
- Pioneered ICPAC regional climate outlook forums within the frame work of WMO Global Climate outlook forums (GCOFs) for enhancing applications of seasonal climate prediction and early warning knowledge. ICPAC is currently a global leader in RCOFs having held to date over 50 such forums. Many regional climate sensitive socio-economic sectors are now active participants in ICPAC RCOFs
- Helped ICPAC to acquire resources for various multi million dollars projects for capacity development and improvement of regional climate knowledge, as well as applications of climate products and services. One of the projects included the building modern fully equipped ICPAC headquarters through IGAD /AfDB funding
- Coordinated provision for strong ICPAC and NMHSs collaboration as well as links with regional universities and research centres to support integrated regional research and applications of climate products and services;

6.3 Member of the Scientific Advisory Committee for Climate Research for Development (CR4D) Scientific Advisory Committee (2019- 2021)

- Member of the WMO Scientific Advisory Panel (SAP)
- Scientific Advisory Panel was established by WMO Congress to provide forward-looking strategic advice on emerging challenges and opportunities to the highest WMO governing bodies, that is, the World Meteorological Congress and the Executive Council.
- SAP is expected to play a fundamental advisory role in WMO transition to a better integrated organization with global standing and visibility as a leading scientific organization in the fields of weather, climate, water and related environmental and social sciences.

6.4 Scientific support to UN Inter-Agency Task Force on Disaster Reduction, and UNISDR

- Member of the UN Inter-Agency Task Force on Disaster Reduction 2000-2006
- Member of the IDNDR Scientific and Technical Committee (STC), 1996-2011. The inter-Agency IDNDR Scientific and Technical Committee (STC) was to advise the UN Secretary-General on matters related to disaster reduction, support the application of Science and Technology in disaster prevention
- Member of the UNISDR Scientific and Technical Advisory Group (STAG), 2012- 2017. The purpose of the UNISDR Scientific and Technical Advisory Group is to provide substantive technical advice and support in the formulation and implementation of activities carried out by the broad International Strategy for Disaster Risk Reduction (ISDR) community.

6.5 Member of the Scientific Advisory Committee for Climate Research for Development (CR4D) Scientific Advisory Committee (2015- to date)

- CR4D is an initiative supported by partnership between African Climate Policy Centre (ACPC) of the United Nations Economic Commission for Africa (UNECA), the African Ministerial Conference on Meteorology (AMCOMET), the World Meteorological Organization (WMO), and the Global Framework for Climate Services (GFCS).

6.6 Member of the Results Management Council of the World Bank Global Facility for Disaster Reduction And Recovery (GFDRR) management board 2011-2014

- . GFDRR is a global partnership that helps developing countries better understand and reduce their vulnerabilities to natural hazards and adapt to climate change. Working with over 400 local, national, regional, and international partners, GFDRR provides grant financing, technical assistance, training and knowledge sharing activities to mainstream disaster and climate risk management in policies and strategies. It is managed by the World Bank, GFDRR is supported by 34 countries and 9 international organizations

6.7 Few other relevant scientific supports

- Was a Member of the UN Ad Hoc Committee on Global Terrestrial Observational System (GTOS)
- Was a Member of the Joint Steering committee for Global climate observation system (GCOS)
- Has been a member of the Steering committee for World Climate Research Programme (WCRP)
- Has been a Member of the Scientific Advisory Committee (SAC) of the African Center of Meteorological Application for Development (ACMAD)
- Was a member of the UNEP Risø Centre Consultative Group (Risø National Laboratory for Sustainable Energy (hosted by Technical University of Denmark)
- Has provided scientific and technical support to the UN Intergovernmental Panel on Climate Change (IPCC) at various levels
- Supported the development of the climate change strategies for African Union (AU) and East African Community(EAC)
- Was a Secretary (CEO), Kenya National Council of Science and technology (NCST) coordinating all national Science and Technology issues
- Full Professor and was a Chairman Department of Meteorology, and has linkage with many academic institutions world wide

7. Professional societies

- Is a fellow of the World Academy of Sciences (TWAS), African Academy of Sciences (AAS), Kenya Academy of sciences, Kenya Met Society and was a fellow of the Royal Met Society.
- Reviewer and Editor of several professional journals
- Is currently serving and / or has served in various capacities in many international, regional and national Scientific programmes
- Has supervised and also examined very many MSc and PhD student all over the world

8. SOME OF THE MAJOR PUBLICATIONS

1. **Ogalo, L. A** 1977: Periodicities and trends in the annual rainfall over Africa. *MSc. thesis, Department of Meteorology, University of Nairobi, Kenya*
2. **Ogalo, L. A.**, 1979: Rainfall variability in Africa. *Mon. Wea. Rev.*, 107, 133 -1139.
3. **Ogalo, LA.**, 1980: Time series analysis of rainfall in East Africa, *PhD Thesis Met. Dept., University of Nairobi, Kenya.*
4. **Ogalo, L. A.**, 1980: Regional Classification of East African Rainfall into Homogeneous regions using the method of principal component analysis. *Statist. Climatology*, 13, 255-266, Elsevier.

5. **Ogalo, L. A.**, 1981: Rainfall characteristics in the arid and semiarid regions of Kenya. *Kenya, Geographer* 5, 28-32.
6. **Ogalo, L. A.**, 1982: Trends of rainfall in East Africa. *K.J.S.T.(A)*, 2, 83-99.
7. **Ogalo L.A.**, 1981: The nature of homogeneity in rainfall records over East Africa. KMD Res. Report No. 4/81
8. **Ogalo, L. A.**, 1982: Quasi-period patterns in the East African rainfall records. KMD Res Report 3, 43-54.
9. **Ogalo, L. A.**, 1984: Variations and change in climate in Sub-Saharan Africa. *Advancing Agricultural, 312. Commonwealth Agricultural Bureaux, London; U.K.*
10. **Ogalo, L. A.**, 1984: Temporal fluctuations of seasonal rainfall patterns in East Africa. *Mausam, Vol. 35 No. 2*, 175-180.
11. **Ogalo, L. A.**, and W. A. Chillambo, 1984: Daily characteristics of the wet and dry spells in Tanzania. *EAFRO J., Vol. 47*, 87-95.
12. **Oteng'i, S. B. B., and L. J. Ogalo, 1984:** Persistence of daily rainfall over some parts of Kenya. *WMO GATE, EAMEX and tropical Met.* 18 pp
13. **Bazira, E. and L. J. Ogalo,** 1985: Daily rainfall characteristics over Uganda. *Proc Met Research in Eastern and Southern Africa*, 152 – 155
14. **Ogalo, L. A., Glantz, H. M. Katz, R. W., and Magalhães,** 1985: Drought and Desertification follow the plow. *NCAR 3141/20 May 1985*, 35 pp.
15. **Ogalo, L. A.**, 1986: Stochastic modelling of Areal annual rainfall records in East Africa. *J. Applied Statist.* 13 49-56.
16. **Ogalo, L. A.**, 1987: Global Climate System, Eastern Africa *WMO, CSM R84/86*, 39-40.
17. **Ogalo, L. A.**, 1987: Climate data processing. *WMO Regional Training Seminar for the National Instructors for Regions I and IV*, 26-10 to 6-11
18. **Ogalo L J and K A Suleiman,** 1987: Rainfall characteristics in East Africa during the El-Nino years. *WMO Proc Met Res. in Eastern and Southern Africa*, pp 76-80.
19. **Ogalo, L. A.**, 1987: Global Climate System, Eastern Africa *WMO, CSM R84/86*, 39-40.
20. **Ogalo L.A., 1987:** Some weather systems associated with the rainfall anomalies over Eastern, Central, and Southern Africa. *Africa WMO, CSM R84/86*, 129-132
21. **Ogalo, L. A.**, 1988: Relationships between seasonal rainfall in East Africa and the Southern oscillation. *J. Climatology* 8, 31-34.
22. **Ouma G.O., L.A. Ogalo and O.S. R.V. Kumar** 1988: Relationship between Cold Cloud Duration and rainfall over southern Tanzania. *METEOSAT, ISSN 1011-3932*, 305-308.
23. **Ogalo, L. A.**, 1987: Global Climate System, Eastern Africa *WMO, CSM R84/86*, 39-40.
24. **Ogalo, L.A.,** 1988 Climatology of rainfall of East Africa. *WMO TMRP, Rept. No. 28*, 136-142
25. **Ogalo, L. A.**, 1989: The spatial and temporal clusters of East African seasonal rainfall derived from Factor Analysis, *J. Climatology*, 9, 145-163.

26. **Ogalo, L. A.**, 1989: The Teleconnections between the global sea surface temperatures and seasonal rainfall over East Africa. *J. Japan Met. Soc.*, Vol. 66, No. 6, 807-822.
27. **Oludhe, C. and L. A. Ogalo**, 1989: Statistical characteristics of the daily wind speeds over Kenya. *J. Applied Stat.* 16, 3, 331-344.
28. **Ogalo, L. A., and Kumar, O.S.R.U,B. Bundi**, 1989: Relationships between East African Seasonal rainfall and the Indian monsoons. *Bulletin American Met. Soc.*, 13 pp.
29. **Ogalo, L. A., and A. Alusa** 1989: Expected changes in East Africa coastal region as a result of global warming and sea level use. *UNEP/OCA/WG6/3*, 13pp.
30. **Ogalo L. A., Kumar, O.S.R.U.B. and G. B. Nnko** 1989: Estimation of tropics South Indian Ocean rainfall using satellite derives highly reflective cloud cover frequency. *Bull. America. Soc.*, 12 pp.
31. **Ogalo, L. A.**, 1989: Drought and Desertification *WMO Tech. Note wcap-7*, 73 pp.
32. **Oludhe, C. and L. A. Ogalo**, 1990: Space-time variability of the surface wind power densities of Kenya. *Inter. J. Global energy Issues*, 2, 2, 132-140.
33. **Oludhe, C. and L. A. Ogalo**, 1990: Vertical variations of the wind power densities over Kenya. *Discovery and Innovation*, 2, 1, 73-80.
34. **Ogalo, L. A., and Krishnamurti, T.N.**, 1990: *Climate Atlas of Africa*, FSU-89-13, Florida State University, 419 pp.
35. **Ogalo, L. A., and A. Alusa**, 1991: An overview of the expected climate change on Eastern African region, *UNEP (OCA/PAC WG 6/4)*, 40pp.
36. **Ogalo, L. A.**, 1991: *The Dry Land of Kenya. Drought follows the plough.* 31-68: Cambridge University Press.
37. **Ogalo, L. A., M. S. Rao and W. N. Gathungo**: 1992: Radio Climatology near the surface over Kenya. *J. African. Met. Soc.*, 1, 1, 90-114.
38. **Ogalo, L.A** 1992: Global Climate Change. Impacts on Kenya. *Global Environmental concerns*, 7-21, Kenya Museum Society
39. **Ogalo L. A.**, 1993: Dynamics of Climate Change over Eastern African *Proc. Indian Academy of Sciences*, 102, 1, 203 217.
40. **Basalirwa C. P. K., L. A. Ogalo and F. M. Mutua** 1993: The design of a Regional Minimum Rain gauge Network. *Water Resource Development*, 94, 411-424.
41. **Ogalo L. A.** 1993: Validity of the ENSO-related impacts in Africa *NCAR-UNEP*, 58-64.
42. **Ogalo L.A**, 1993: Climate change signals over eastern and southern Africa. *Proc. WMO. Tech Met Research in eastern and southern Africa*, pp41-46
43. **Ogalo L. A. and Krishnamurti T.N.** 1994. *Climate Atlas of Africa Volume II: 1980-89: Florida State University*, 697 pp.
44. **Ogalo L. A. and R. Okoola** 1994: Characteristics of QBO in Kenya and their predictability potential for seasonal rainfall, *Mausam*, 45, 57-62.
45. **Ogalo L. A.** 1994: Drought and Desertification: An overview. *WMO Bull*, 43, 1, 18-22.
46. **Ogalo L. A.** 1994: Post Impacts Syndromes of Drought response Strategies in Africa. *ENSO/FEWS, UNEP*, 12pp

47. **Nyakwada W., L.A. Ogallo, and E.K. Anyamba** 1995. Relationship between Outgoing long wave radiation (OLR) and rainfall over East Africa *J.African Met. Soc.*, 2, No. 1, 19-34.
48. **Ouma, G.O., Ogallo L.A. and O.S. R.V. Kumar** 1995: Satellite remote sensing estimates of point and a real rainfall over parts of East Africa. *J.African Met. Soc.*, 2, No. 1, 80-92.
49. **Ogallo L.A. and S. Marigi** 1995: Rating of Solar energy systems in Nairobi, Kenya. *J.African Met. Soc.*, 2, No. 1, 47-64.
50. **Ogallo L.A.** 1995: Global Monitoring of terrestrial ecosystems, challenges for the developing countries. *Global monitoring of Terrestrial ecosystems, PP 105-109 Ernst and Sohn.*
51. **Ogallo L. A. et. al.** 1995: The global change phenomenal and building a stable climate. *A climate for Development, Acts*, 1995,1-84
52. **Karl TR, Jouzel J, Gruza GV and L.A Ogallo** 1996: Observed Climate Variability and Change, The IPCC Second Scientific Assessment.; 1996
53. **Sun, L., F. H. M. Semazzi, F. Giorgi, and L. J. Ogallo** 1999a: Application of the NCAR Regional Climate Model to Eastern Africa. Part I: Simulations of Autumn Rains of 1988. *J. Geophy.Res. J. Gophy. Research*, 104, 6, 6529-6548.
54. **Sun, L., F. H. M. Semazzi, F. Giorgi, and L. Ogallo** 1999b: Application of the NCAR Regional Climate Model to Eastern Africa. Part II: Simulations of Interannual Variability. . *J. Geophy.Res. J. Gophy. Research*, 104, 6, 6549-6562
55. **Ogallo,L.A.; J. Mason;S.M. Kinguyu; B.S. Nyenzi, E. Matari; G. Mimmack** 1999: Indices and indicators of climate change in Africa: *J. African Met Soc*,4 No 2,17-29
56. **Ogallo, L.A. and E. Bazira** 1999:Potential of seasonal rainfall prediction over East Africa as derived from SST modes of the neighbouring oceans *J. African Met Soc*,4 No 2,63-80
57. **Ogallo, L.A.** 2000, Predicting drought in Kenya- Prospects and challenges, *Drought*, 1, *Inst. Sc, Information*, 52-67.
58. **Ogallo, L.A, T.Keane, and M.S. Boulahya** 2000, Applications of seasonal to Inter-annual predictions in agricultural planning and applications *International J. Agricultural and forest meteorology*, 103, 159-166
59. **Indenje M., F.H.M. Semmazi, L.A.Ogallo** 2000, ENSO Signals in East African rainfall seasons. *J. Climatol*, 20, 19-40.
60. **Ogallo L.A., Kinguyu, S.M., and E.K. Anyamba** 2000: Recent trends of Maximum and Minimum surface temperatures over eastern Africa. *J. Climate*,13,2876-2886
61. **Indeje, M., F. H. M. Semazzi, and L. J. Ogallo**, 2000: ENSO signals in East African rainfall and their prediction potentials. *Int. J. Climatol.* 20, 9-46.
62. **Karanja F, Ogallo LJ, Mutua FM, Oludhe C, S.M Kisia** 2000. *Kenya country case study: Impacts and responses to the 1997-98 El Nino event. UNEP,NCAR, WMO*, Report 43pp
63. **Akunda E, Ogallo LA , Ambenje PG, and Z.K.K Atheru**: 2000. Regional climate forecasts for enhanced food production to alleviate rural poverty around the Lake Victoria Region, *Drought Monitoring Center Nairobi (DMCN) 2000.*
64. **Indeje, M., F. H. M. Semazzi, L. Xie and L. J. Ogallo**, 2001: Mechanic model simulations of the east African climate using NCAR regional model: Influence of large scale orography on Turkana low level Jet, *J. Climate*, 14,68-82.

65. **Ambenje, P.G.,P. Groiman L.Ogallo, , and T.R. Karl**, 2001; trends in seasonal precipitation and frequency over eastern and southern Africa. *Climate Network Africa,15pp*
66. **Opere AO, Mutua FM, L.A.Ogallo** . 2002: Stream flow regionalization using discordancy and heterogeneity measure statistics. *J. African Met. Society*. 2002;5(2):71-76
67. **Ondieki C. M. Ogallo A. and F, Mutua** 2003 Homogenous Regions From Hydro climatological Data Of The Upper Ewaso Ngiro Basin-Kenya. *Journal of the African Met. Society-*, 6: 2 69-84.
68. **Ondieki C. M. Ogallo A. and F, Mutua** 2002 Transfer Function Noise (TFN) models for short duration hydrological events in Ephemeral stream catchments in Kenya, *Journal of African Met. Society-* Vol. 5 No. 2 Sept.2002. pp 29-42.
69. **Opere A.O, Mutua FM, and L.A.Ogallo** 2003: "The need for a flood forecasting system in Kenya." *Journal of African Meteorological Society*. 2003;6(1):6-14,
70. **Mutemi J.N , J. Ininda , L.A. Ogallo, and W. Gitau**, 2003: . The Predicable patterns and Modes Of East Africa Seasonal Rainfall Following Global SST and ENSO Phase Forcing. *Proc. Sixth Kenya Meteorological Society*.
71. **Ogallo,L.A, S. B. Otengi, P. Ambenje, W. Nyakwada , and F.Githui**: 2004: Agricultural Drought Monitoring: The Case of Kenya, *Chapter 18: Agriculture and drought , Oxford University Press*.
72. **Song, Y., Semazzi, F. H. M., Xie, L. and L.A Ogallo**: 2004. A coupled regional climate model for Lake Victoria basin of East Africa. *Int. J. Climatol.* **24**, 57-75.
73. **Ogallo, L.A.** et al 2004: Coping with floods in Kenya: Vulnerability, Impacts and adaptation options for the flood prone areas of western Kenya: *UNEP report 2004, 79PP*.
74. **Gitau, W., Ogallo L. A. and Mutemi, J. N., 2005**: The Predicable patterns and Modes of East Africa Seasonal Rainfall Following Global SST and ENSO Phase Forcing.. *Proc. Sixth Kenya Met Soc,13pp*
75. **Indeje,M, N.M. Ward, Ogallo, L.A., G. Davies, M. Dilley, A. Anyamba**: 2005 Predictability of the normalized difference vegetation Index in Kenya and potential applications as Indicator of Rift valley fever outbreaks in the Greater Horn of Africa. *J. Climate* 19, 9. 1673-1687
76. **Mutemi, J. N. L.A. Ogallo, T. N. Krisknamurti, Mistra, and T.S.V. Kumar 2006** Multimodel based Superensemble Forecasts for Short and Medium Range NWP over Various Regions of Africa:, *Meteorol Atmos Phys* 94,1-27
77. **Ogallo L.A, M. Onyango, R. Odingo, A.B.C Ayayo, C. Oludhe , G.Ouma, and P.Ochieng 2006**: Training manual for traditional indigenous knowledge for nature conservation, early warning and natural disaster management in Kenya, *ICPAC/1/2006 ,*
78. **Ogallo, L.A , R.Odingo,G. Ouma and C.ludhe 2006**: Climate Change and Human Development in Africa: Assessing the Risks and Vulnerability of climate Change in Kenya, Malawi and Ethiopia *UNDP REPORT* 56 PP
79. **Odingo, R.S. and L.A Ogallo, 2006**. Drought Occurrences in Eastern Africa Sub-region as witnessed from Palaeo- and Instrumental Climate Records. *WMO Climate Variation Tucson, Arizona report, 12 pp*

80. **Owiti, Z. O. and Ogallo L. A., J.Mutemi, 2007:** Dynamical Aspects of Indian Ocean Dipole and East African Rainfall Anomaly Linkages. *Journal of the Kenya meteorological Society*.1, 14-19.
81. **Ouma G. O. and L. J. Ogallo 2007:** Desertification in Africa, *POST, Kenya: Promotion of Science and Technology*, Vol. XIII No. 1, 22 – 25
82. **Patt A. G., L. Ogallo, M. Hellmuth, 2007** Learning from 10 Years of Climate Outlook Forums in Africa, *Science* , Vol. 318. no. 5847, pp. 49 – 50
83. **Ouma G, and L.A Ogallo, 2007:** Desertification in Africa. *Promotion of Science and Technology (POST). 2007;* Vol. XIII (No.1):22-25 .
84. **Ogallo L.A 2007** sustainability of regional climate outlook forums (RCOFS): *WMO/CLIPS RCOFS Review*, 12pp
85. **Mutemi JN, Ogallo LA, Krishnamurti TN, Mishra AK, Kumar VTSV.2007:** Multimodel based superensemble seasonal climate forecasts for various regions of Africa. *Met. Atmos Phys.*;95:87-113
86. **Ouma, G. O., and L.A.Ogallo : 2007.** Desertification in Africa, IGAD Climate prediction and Application Cente , UNCCD Report, 6pp
87. **Awange, J.L., J. Aluoch, L.A. Ogallo, M. Omulo, and P. Omondi. 2007.** Frequency and severity of drought in the Lake Victoria region, Kenya and its effects on food security. *Climate Research* 33 (2): 135–142.
88. **Ogallo L.A., R. Odingo, G. Ouma and C. Oludhe 2007:** Climate Change and Human Development in Africa: Assessing the Risks and Vulnerability of climate Change in Kenya, Malawi and Ethiopia, UNDP Report 56pp
89. **Omondi, P and L.A. Ogallo 2007 :** Progress in the Seasonal Rainfall Prediction for the Greater Horn of Africa Region, Report of the WCRP Workshop on Seasonal Prediction, Barcelona, Spain 13pp
90. **Awange, J. L., Omondi P. A., Ogalo, L. A., Kwang, B., Were, P., Omute, P. and Omullo, M., 2008:** Falling Lake Victoria water levels: Is climate a contributing factor? *Climatic Change* , 89, 281-297
91. **Ogallo,L.A, P. Bessemoulin, JP. Ceron, S. Mason, and S. J. Connor, 2008:** Adapting to Climate Variability and Change: The roles of Regional Climate Outlook Forum processes. *WMO Bulletin*, 57 (2), 93-102
92. **Gitau W, Ogallo L, J.N Mutemi 2008.** Intraseasonal characteristics of wet and dry spells over Kenya.*Journal Kenya Met Soc* 2(1): 19–30
93. **Owiti Z.,L.A Ogallo, and J.Mutemi 2008.** Linkages between the Indian Ocean Dipole and East African Seasonal Rainfall Anomalies Kenya.*Journal Kenya Met Soc* 2(1): 1-18
94. **Ogallo, L.A. 2008:** Managing Drought Risk: Lessons and Experiences from IGAD Climate Prediction and Applications Centre (ICPAC) in the Greater Hon of Africa. *ISDR report*, 10pp
95. **Omeny P, L.A,Ogallo, R. Okoola, H. Hendon and M. Wheeler 2008:** East African rainfall variability associated with the Madden-Julian oscillation. *Kenya. J. Kenya Met Soc* 2,1, 105-114
96. **Ogallo L.A., 2009** Climate variability and change in Africa: a review of potential impacts on terrestrial water resources Proceedings of the of the 2008 Groundwater and Climate in Africa Conference Kampala, *IAHS Publ.* 334,47-51

- 97. Ogallo, L.A. 2009:** Climate Risk Assessment for Development and Financial Institutions in Africa
WMO climate risk management training workshop report, Tunis, Tunisia, 8pp
- 98. Ogallo, L.A. and C. Oludhe, 2009:** Climate information in decision-making in the Greater Horn of Africa: Lessons and experiences. *WMO Bulletin*, 58(3), 1-5.
- 99. Nyakwada W., Ogallo L.A , and R. Okoola, 2009 :** The Atlantic-Indian Ocean Dipole and it's Influence on East African Seasonal Rainfall. *J Meteorology and Rel Sciences*. 2009;3:21-35.
- 100. Ogallo L.A., R.Odingo, and C .Oludhe 2009** Climate change science : detection, attribution and evidence of climate change *CCAA/IDRC Document Number: 239247*
- 101. Ogallo L.A., R.Odingo, and C .Oludhe 2009:** Climate change adaptation *CCAA/IDRC Number: 129163*
- 102. Ogallo L.A., R.Odingo, and C .Oludhe 2009:** Climate change impacts and vulnerability in Africa *CCAA/IDRC Number: 129165*
- 103. Ogallo L.A., R.Odingo, and C .Oludhe 2009** Climate risk evaluation methods and tools . *CCAA/IDRC Number: 129166*
- 104. Ogallo L.A., R.Odingo, and C .Oludhe 2009 :** 2009 Downscaling of climate variability and change . *CCAA/IDRC Number: 129167*
- 105. Omondi P, L Ogallo, R. Okoola 2009** Decadal Rainfall Variability Modes in observed Rainfall Records over East Africa and their Predictability using Sea Surface Temperature *J.Kenya Meteorol. Soc.*, 3 37-54 (2009)
- 106. Ogallo L.A, P.A. Omondi and R. Kolli; 2009:** Practical applications of seasonal to inter-annual climate predictions on regional and national scales : A Greater Horn of Africa perspective . *J Hydrology*, 464/465, 140 – 156
- 107. Ogallo, L.A. 2009:** Climate variability and change in Africa: a review of potential impacts on terrestrial water resources Ground water and climate in Africa, *IAHS,334.,1-6*
- 108. Murray V., Beddington J. Roth C. Schneider J., Shi P. , I Onishi T., Wenger T., and W. Ammann. and L.A.Ogallo, 2009:** Reducing Disaster Risks through Science: Issues and Actions, *Report of the UNISDR Scientific and Technical Advisory Group: http://www.unisdr.org/files/11543_STCR,*
- 109. Ogallo L.A, R. Odingo, C. Oludhe and G.Ouma 2010:** Training manual on integrated climate risk assessment for climate change adaptation: 2010 ICPAC /1/2010 *CCAA/IDRC/ DFID* 93pp
- 110. Onyango M., Ouma G., L Ogallo 2010:** Science of the Elders, Kenya's Nganyi working with scientists to forecast the weather *Alternatives Journal*, 36 (4), 11-14
- 111. Oludhe, C., Ogallo, L., Ambenje, P., Atheru, Z. and W.Gitau: 2010:** State of Eastern Africa climate in 2009 . *Bull. America Meteorological Society*,91,2010
- 112. Ogallo L.A; Odingo R and C. Oludhe 2010.**Framework /Programme for UNEP articulating climate Change daptation issues in Africa: *Report on UNEP climate change Framework /Programme, 53PP, UNEP*
- 113. Wandiga S.O, Opondo M, Olago D., Githeko A., Githui F., Marshall M., Downs T., Opere A., P.Z. Yanda, R. Kangalawe, R Kabumbuli, J.K. Kathuri, E. Apindi, L. Olaka, L Ogallo, P. Mugambi, R Sigalla, R. Nanyunja, T. Baguma, P. and Achola: 2010** Vulnerability to epidemic malaria in the highlands of Lake Victoria basin: the role of climate change/variability, hydrology and socio-economic factors *Climatic Change*, 99:473–497

114. **Ogallo L.A., P. Omondi and R. Kolli**, 2010: Practical applications of seasonal to inter-annual climate predictions on regional and national scales: a greater horn of Africa perspective, Report WMO regional climate report; Antalya, Turkey, 15pp
115. **Gitau W., Oludhe C., Ogallo L.A. Z. Atheru, P., A.mbenje**: 2011 :Regional state of Climates over Eastern Africa in 2010. *Bull America Meteorological Society*. 2011;92.
116. **Oludhe, C.; Babatunde A.; Oguntunde P.; Ogallo, L; Speranza I and Chinwe** 2011:Addressing Climate Change Challenges in Africa: A Practical Guide Towards Sustainable Development UNEP, http://www.unep.org/roa/amcen/docs/publications/guidebook_Climate_Change
117. **Girmaw Bogale · Seleshi B. Awulachew · Tufa Dinku · Buruhani S. Nyenzi · L Ogallo** 2011: Assessment of Africa’s Climatic Records and Recording Networks Including. Strategic for Rescuing of Climatic Data *ECA/ACPC Working Technical paper No3.*, 21pp
118. **Gitau W., Oludhe C., Ogallo L.A. Z. Atheru, P., A.mbenje**: 2012: Regional state of Climates over Eastern Africa in 2011. *Bull. America Meteorological Society*. 2012; 93(7):S180-S182.
119. **Omondi P.,Ogallo L.A., Anyah R., Muthama J.M., and J. Ininda** 2012 Linkages between global sea surface temperatures and decadal rainfall variability over Eastern Africa region *International Journal of Climatology*: 33,8, PP 2082–2104.
120. **Ziervogel G. , Opere A. Chagonda I.; Churi J.; Ndiye A.; Houenou B.; Hounkponou S.; Kisiangani E., Kituyi E.; Lukorito L.; Macharia A.; Mahoo M.; Majule A.; Mapfumo P.; Mtambanengwe P.; Mugabe F.; Ogallo L.A; Ouma G.; Sall A;and G. Wanda**: 2012 :Integrating meteorological and indigenous knowledge-based seasonal climate forecasts for the agricultural sector <http://www.idrc.ca/EN/Resources/Publication,799>
121. **Omondi, P., Awange, J.L., Ogallo, L.A., Okoola, R.A., Forootan, E.**, 2012. Decadal rainfall variability modes in observed rainfall records over 88. East Africa and their relations to historical sea surface temperature changes. *J. Hydrol.*, 09, 140-156
122. **Omondi P.,Ogallo L.A., Anyah R., Muthama J.M., and J. Ininda** 2012 Linkages between global sea surface temperatures and decadal rainfall variability over Eastern Africa region *International Journal of Climatology*: 33,8, 2082–2104.
123. **Ogallo, L.A.** 2012: Use of innovations in enhancing communities drought response and resilience. *Global Forum, Mapping Global risks*, 20pp
124. **Graham R. and L.A. Ogallo** 2012: Examples of seasonal forecast training materials from the ICPAC-UK Met office Hadley centre training workshop; Commission for basic systems, Report of the expert team on extended and long-range forecasting, *CBS-DPFS/ET-ELRF*: Doc. 8.4(1), 7pp
125. **Mwesigwa J.B., Onyango, M, Oduor J., S. Mwangi , J. Ayieko , M. Onyango, F. Ogambi, N. Ole Ntiati and L. A. Ogallo**, 2012: New Approaches for Improving Farmers’ Livelihoods through Timely and Proper Use of Weather Forecast Information – Pilot Case in Kenya , *Proc. Third RUFORUM Biennial*, 12pp
126. **Murray V.; Beddington J. , Roth C. Schneider J., Shi P. , i Onishi T., Wenger T., ,W. Ammann., and L.A.Ogallo**: 2013: Using Science for Disaster Risk Reduction. *Report of the UNISDR Scientific and Technical Advisory Group*, 44pp
127. **Ouma G. O., Ogallo, L., Maria, O., Achola, P., Wayumba, G., Ochieng’, J. P., Mbeva, J., Mwangi, S., Abong’o, B.O. and P. Nyamenya**, 2013: Coping with local disasters using indigenous knowledge: Experiences form the Nganyi Community of Western Kenya. *LAP LAMBERT Academic Publishing*. ISBN 978-3-659-45101-0.

128. **Mwesigwa J.B., Ogallo L.A, Ouma G., Onyango M., Mwangi S, Wayumba W., Mbeva J., Ochieng' P., Achola Pala, and Peter Nyamenya,** 2013 Community-based climate monitoring services in support of resilient community livelihoods and sustainable ecosystems, UNEP report,2013
129. **Ogallo L.A., R. Odingo, and C. Oludhe:** 2013 Report on the Development of comprehensive Framework /Programme for UNEP articulating climate change adaptation issues in Africa, *UNEP report 2013*, 54pp
130. **Omondi P., J.L. Awange, L.A. Ogallo, J. Ininda, and E. Forootan,** 2013:The influence of low frequency sea surface temperature modes on delineated decadal rainfall zones in Eastern Africa region *Advances in Water Resources*, 54, 161–180
131. **Gitau W., Oludhe C., Ogallo L.A. Z. Atheru, P., A.mbenje:** 2013:Regional state of Climates over Eastern Africa in 2011. *Bull. America Meteorological Society.* 2013,;94
132. **Gitau W., Ogallo L., Camberlin P.,and R. Okoola:** 2013: Spatial coherence and potential predictability assessment of intraseasonal statistics of wet and dry spells over Equatorial Eastern Africa. *International Journal of Climatology*:33 (12) :2690-2705
133. **Omondi, P., Ogallo, L. A., Anyah, R., Muthama, J. M. and J. Ininda,** 2013: Linkages between global sea surface temperatures and decadal rainfall variability over Eastern Africa region. *Int. J. Climatol.*, 33 (8), 2082-2104.
134. **Omondi R,A ,Awange J, Forootan E., Ogallo L.A, Barakiza R, Girmaw G.B, Fesseha I, Kululetera V, Kilembe C., Mbatu M.M, Kilavi M, King'uyu S.M , Omeny P.A , Njogu A.,Eldin Badr M., Musa T.A, Muchiri P, Bamanya D. and E. Komutunga** 2014: Changes in temperature and precipitation extremes over the Greater Horn of Africa region from 1961 to 2010 *International J. Climatology*,34,4, pp 1262–1277,
135. **Kipkogei O, A Bhardwaj, Kumar, V,A Ogallo, L.A., J Opijah, F.J., Mutemi, J.N, T N Krishnamurti,2014:** Improving Multimodel Medium Range Forecasts over the Greater Horn of Africa Using the FSU Superensemble, *J. Meteorology and Atmospheric Physics*, MAA-P-14-00094, 32pp
136. **Gitau, W, L. Chang'a, C. Oludhe, L.A. Ogallo, Z. Atheru, P. Ambenje, A. Kijazi, H. Ng'ongolo, P. Luhunga, and P. Levira** 2014 : Easter Africa climate in 2013:[in in the “State of the Global Climate in 2013”]. *Bull. Amer. Meteor. Soc.*, 95 (7), 176-178
137. **Camberlin P., Gitau W., Oettli P, Ogallo L.A. and B. Bois:** 2014: Spatial interpolation of daily rainfall stochastic generation parameters over East Africa. *Climate Research.* 2014; 59(1):39-60.
138. **Otieno, G.L.1,, Opijah, F.J., Mutemi, J.N., Ogallo, L.A.,2 Anyah, R.O., Ongoma, V. and Sabiiti, G.** 2014 Seasonal rainfall forecasting using the Multi-Model Ensemble Technique over the Greater Horn of Africa, *International J. Physical Sciences* , 2(6), pp. 095-104
139. **Opijah, F. J., Mutemi, J. N., and L.A Ogallo,**2014. Application of the Ems-Wrf Model in Dekadal Rainfall Prediction over the GHA region. *Africa Journal of Physical Sciences* 1,1,17-24
140. **Githeko A.K, Ogallo L., Lemnge M., Okia M., and E. N. Ototo:** 2014: Development and validation of climate and ecosystem-based early malaria epidemic prediction models in East Africa. *Malaria J.* 08/2014; 13(1):329- 349
141. **Ogallo L.A., R. Odingo, G.Ouma and C. Oludhe:** 2014: Draft African Strategy on Climate Change, *African Union Commission (AUC)*,121 pp
142. **Sheffield, J., Wood, E.F., Chaney, N., Guan, K., Sadri, S., Yuan, X., Olang, L., Amani, A., Ali, A., Demuth, S., Ogallo, L.** 2014: A drought monitoring and forecasting system for sub-Sahara

- 143. Aitsi-Selmi A., V. Murray, K. Blanchard, D Wenger, P. Basabe, C Roth, J. Schneider, P. Shi, T. Onishi, W. Amman, D. Al-Khudhairy, A. Revi and L. A.Ogallo** 2015: Science is used for disaster risk reduction, *UNISDR Science and Technical Advisory Group Report 2015*, 48pp
- 144. Otieno G. F Opijah, J Mutemi, A Guleid, G. Sabiiti, J. Ouma , L Ogallo, E Wabwire and A. Onyango** 2015: Extreme Rainfall Assessment using Global Climate Models over the Greater Horn of Africa, *Ethiopian e-Journal for Research and Innovation Foresight*. Vol 7, no 1, 55 -65
- 145. Ogallo L and Oludhe** 2015: Science and technology needs, gaps and opportunities for building post-2015 climate change resilient development agenda for Kenya: 4th *National Science Week on evidence-based solutions to science and technology development in the post-2015 agenda in line with the Kenya 2030 , 11- 15 May Nairobi.*
- 146. Ouma,G., L. Ogallo, M. Onyango, S. Mwangi,G. J. Mbeva, P. Ochieng', Achola Pala, P. Nyamenya,** 2015: Community-based climate monitoring services and early warning system: The Case of the Nganyi Community, *UNISDR Scientific and Technical Advisory Group Case Studies 2015 Report*, 5pp
- 147. Ogallo L.A. 2015:** Our common future under a changing climate over the Greater Horn of Africa, *Proc. 12th KMS International Conference on Meteorological Research, Applications and Services ,10pp*
- 148. Gitau W., P. Camberlin, L Ogallo, and R. Okoola** 2015: Oceanic and atmospheric linkages with short rainfall season intraseasonal statistics over Equatorial Eastern Africa and their predictive potential, 2015: *International Journal of Climatology*: 35 (9), 2382-2399
- 149. Kipkogei O., A. Bhardwaj, V. Kumar, L. A. Ogallo, F.J. Opijah, J.N. Mutemi and T.N. Krishnamurti** 2016: Improving Multimodel Medium Range Forecasts over the Greater Horn of Africa Using the FSU Superensemble, *Meteorol & Atmos Phys* , 128(4), 441–451.
- 150. Sabiiti G., J. Ininda , L. Ogallo, F Opijah, A Nimusiima, G Otieno, D. Ddumba, J Nanteza, C. Basalirwa,** 2016: Empirical Relationships between Banana Yields and Climate Variability over Uganda, *J. Agricultural Sciences*, 7, 03-13,
- 151. Oluoko-Odingo, A., L A Ogallo, C Oludhe, R S Odingo ,** 2016: Climate Risks, Gender Perspectives and Livelihoods in the Greater Horn of Africa Publication: *Amazon* , ISBN/EAN13: 1534708138 / 9781534708136, 222pp
- 152. Ogallo,L.A.. B. S. Nyenzi, and F. Semazzi** 2016: Legacy of the late Prof. Godwin Olu Patrick Obasi in championing past and present climate services pioneers in Africa. UNECA/ACP Sixth Conference on Climate Change and Development in Africa (CCDA-VI), 12PP
- 153. Omay P.O, L. A. Ogallo, Oludhe C., Gitau W. ,** 2016; Temporal and Spatial Characteristics of the June-August Seasonal Rainfall and Temperature over South Sudan *J. Meteorol. Related. Sci.*, 9:2:35-49 ,

- 154. Opijah F, Mutemi J., Ogallo L.A,** 2017: Seasonal Climate Predictability over Kenya Using the Regional Spectral Model *J. Meteorol. Related. Sci.*, 10, 1, 12-24
- 155. Mwesigwa JB, G.O. Ouma, J. Ouma, I.M. Lutta, S.G. Mwangi, LA. Ogallo,**2017:Tools and Procedures for Seasonal Downscaling of Climate Forecasts for Use by Farmers Over the Greater Horn of Africa: A Case Study for Western Kenya, *Climate Change Adaptation in Africa*, 393-411
- 156. Ouma G.O, A. M. Dieye, L. O. Ogallo & L. O. Olang,** 2017: Institutional challenges in scaling-up climate change adaptation actions: experiences from rural communities in Senegal and Kenya, *J. Climate and Development* 10 (7), 590-599
- 157. Gitau, W., Camberlin, P., Ogallo, L. and Bosire, E. ,**2017; Trends of intraseasonal descriptors of wet and dry spells over equatorial eastern Africa. *Int. J. Climatol.* 38,3, 1189-1200
- 158. Sabiiti, G. J. M. Ininda, L.A. Ogallo, J. Ouma, G. Artan, C. Basalirwa, F. Opijah, A. Nimusiima, S. D. Ddumba, J. B. Mwesigwa, G. Otieno, and J. Nanteza** 2018: Adapting agriculture to climate change: suitability of banana crop production to future climate change over Uganda , *In Book (Limits to Climate Change Adaptation. Climate Change Management)*, Springer, Cham, 175-190.
- 159. Ouma, J., L. O. Olang, G. O. Ouma, C. O. Oludhe, L A. Ogallo** 2018 : Magnitudes of Climate Variability and Change over the Arid and Semi-Arid lands of Kenya *American Journal of Climate Change* , 7, 27-39
- 160. Otieno G, F. Opijah, J. Mutemi, L. Ogallo,** 2018: Evaluation of Seasonal Rainfall Patterns as Simulated by the Global Model –Europe over the Greater Horn of Africa *J. Meteorol. Related. Sci.*, 10,2::1:4; 35-43
- 161. Ogallo, L.A.** 2018: Indigenous knowledge and climate change, *Proc UNESCO workshop on Indigenous knowledge, 27 - 28 June 2018, Nairobi , Kenya, 11pp*
- 162. Ogallo L.A. and. Ouma J.** 2018 Developments and Innovations in the Science and Technology of the Prediction of Weather and Climate Extremes for Building Resilience for Weather and Climate Smart Development; *Proc 13th Kenya meteorological society (KMS) international conference*, 12pp
- 163. Otieno G., J. Mutemi, F. Opijah, L. Ogallo, G. Artan, H. Omondi** 2018: The Impact of Cumulus Parameterization on Rainfall Simulations over East Africa. *Atmos & Climate Sc*, 8, 355-371
- 164. Ogallo L.A.** 2018: Geoengineering climate change: UNECA/ACP Seventh conference on Climate Change and Development in Africa (CCDA-VII), on Policies and actions for the effective implementation of the Paris Agreement, 15pp