

CURRICULUM VITAE

NAME: PROFESSOR RICHARD SAMSON ODINGO,
NOBEL LAUREATE

QUALIFICATIONS: BA. (HONS) (LONDON), PHD (LIVERPOOL),
F.R.G.S. , F.K.A.S ., FKMS, D.LITT(HONORIS CAUSA)
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Nairobi, P.O. Box 30197, NAIROBI, 00100, Kenya

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EDUCATION

Nyang'ori Intermediate School

Kakamega Secondary School- Cambridge School Certificate -Grade 1

Makerere University College- in association with London University- BA
(Honours)- Upper Second Class

Liverpool University (UK)- Doctor in Philosophy (PHD) in Geography

APPOINTMENTS:

Lecturer in Geography -1963-1969 - Makerere University and University of
Nairobi

Senior Lecturer in Geography- University of Nairobi 1969

Associate Professor of Geography- University of Nairobi- 1975

Senior Programme Officer, Natural Resources- United Nations University (UNU)Tokyo, Japan 1979-1981

1982- Resumed teaching at the University of Nairobi after two years Leave of Absence

Appointed Full Professor of Geography- University of Nairobi -1987

VISITING APPOINTMENTS

Post-Doctoral Research Fellow-University College London-1969

Post-Doctoral Research Fellow- Food Research Institute, Stanford University, California, USA 1969-70.

Visiting Professor, University College, London (UK)-1992

TEACHING EXPERIENCE

I have very extensive University teaching experience at the undergraduate and postgraduate levels. Over the years I have supervised many graduate students at the MSc and MA levels and at least 15 PHD students. My main areas of teaching, research and postgraduate supervision have included:

Agricultural Geography

Climatology

Environmental Remote Sensing

The Geography of Natural Resources

Studies of Drought and Desertification

Studies involving Agriculture and Rural Development

Multipurpose River Basin Development

Studies on Climate Change in its entirety under the auspices of the IPCC.

RESEARCH EXPERIENCE

1. PHD Research was in the field of the Geography of Agriculture with fieldwork and Thesis on the former “White Highlands” of Kenya.
2. I carried extensive research on resettlement in the former Kenya Highlands after independence for Journal and other publications.
3. I was for two years appointed as Senior Programme Officer, United Nations University, Tokyo –Japan where I was in charge of coordination of Research at global level, in the area of **Natural Resources with special reference to Africa, and Latin America.**
4. Research on applied Climatology with special reference to East Africa

5. I have carried out extensive Research on Applied aspects of Environmental Remote Sensing in Africa and its relevance to economic development.
6. Research on Settlement Geography of the Kenya Highlands or the former "**White Highlands**", a European enclave of modern farming in post-war Africa.
7. Multi-disciplinary research on the Kano Plains jointly with the British Medical Research Foundation -funded also by the US National Research Foundation.
8. **Research on Rural institutions in Kenya** funded by the UN Food and Agriculture Organization (FAO)-1973-74. Published in the FAO Proceedings of the Dakar Meeting 1975. Three other Studies of Land Tenure in the Kenyan Highlands were prepared for the FAO in the 1980s.
9. Environmental Impact Assessment of the Kamburu-Gitaru Hydro-Electric Power Development in Kenya- I was Director of the Research Programme for the period 1975 to December 1977. **The Kamburu Ecological Study, and Environmental Impact Assessment was funded by the Swedish International Development Authority (SIDA) and the World Bank.**
10. I was in-charge of the production of several reports on the Kamburu Study and this was followed by a Book published by the **Swedish Natural Science Research Council in 1979 - An African Dam, Ecological Survey of the Kamburu/G'taru Hydro-electric dam Area, Kenya-edited by Professor Richard Samson Odingo Ecological Bulletin No. 29, Swedish national Research Council.**
11. Regional Study Author and Coordinator for the International Federation of Institutes of Advanced Study (IFIAS) project- "Drought and Man" -1976-1977- 3 Volumes Edited by Professor Rolando Garcia.
12. Multipurpose River Basin Development Studies- funded by SIDA.
13. Climatic variations and Climate Change with special reference to Africa and East Africa
14. Drought and Desertification- was closely involved with UNEP work on Desertification control as a consultant for several years.
15. Gilbert White, Richard Odingo, et al; 1978. Experiences with River Basin Development, Wiley and Sons. New York, London.

16. R:S:Odingo (Editor) Desertification Revisited. Nairobi, United Nations Environment Programme (UNEP) Proceedings of an AD-Hoc Consultative Meeting on the Assessment of Desertification. Nairobi 1990.
17. Numerous Climate Change Publications- IPCC 1988-2005.
18. R.S. Odingo 2001 The Clean Development Mechanism in Africa; A Framework for the Design of Sustainable Development Projects. Nairobi, Climate Network Africa. This book was prepared to help African countries to find their feet, and to participate meaningfully in the arrangements provided for within the Kyoto Protocol, ratified and now in operation since 2005.
18. Over 100 Articles for Publication in Journals or as Chapters in various Books.

1. RESEARCH INTERESTS:

Agricultural Geography
Climatology
Climate Change
Global change
Multipurpose River Basin Development
Land use, Land use Change and Forestry
Integrated Assessments
Environmental Remote Sensing
Energy systems and Economic Development

2. CURRENT ON-GOING RESEARCH ACTIVITIES:

Until September 2008 I was Vice President of Intergovernmental Panel on Climate Change (IPCC) and responsible for working with other scientists from around the world on assessments on all aspects of climate change such as:

- The Science of Climate Change
- Climate Change Impacts and Adaptation
- Climate Change Mitigation on a Global Scale
- Application of Climate Information to all aspects of Planning

- Global Drought Studies and Regional Drought studies
- Use of Remote Sensing and GIS in development Sciences

RECENT PUBLICATIONS:

I-BOOKS PUBLISHED OR REVIEWED WITHIN THE IPCC

- 1- Odingo R.S. (2001) The Clean Development Mechanism - A Framework for the Development of Sustainable Projects. CNA, Nairobi.
- 2- IPCC (2001) Climate Change 2001: Scientific Basis - Scoping and Final Review Team. Cambridge University Press.
- 3- IPCC (2001) Climate Change 2001: Mitigation - Review Editor.
- 4- IPCC (2001) Climate Change 2001: Impacts and Adaptation - Review Editor, Cambridge University Press.
- 5- IPCC (2001) Climate Change 2001: Synthesis Report - Review Editor of Chapters on Uncertainty and Risk Assessment - Cambridge University Press.
- 6- IPCC (2001) Special Report on Land use, Land Use Change and Forestry - Review Editor and Scoping Team, Cambridge University Press.
- 7- IPCC (2000) Good Practice Guidance for Greenhouse Gas Inventories Emissions - Review Editor, Cambridge University Press.
- 8- DMCN/UNEP (2004) Coping with Floods in Kenya: Vulnerability, Impacts and Adaptation Options for the Flood-Prone Areas of Western Kenya. Final Report prepared by the Drought Monitoring Centre, Nairobi (DMCN)-April 2004-Member of the Scientific Team which Prepared the Report.

- 9- Kenya's Climate Change Technology Needs assessment Report, May 2004 - Prepared under the Auspices of the United Nations Framework Convention on Climate Change (UNFCCC) - Review Editor.

RECENT PAPERS

- Odingo, R.S. (2001) Resource Management Issues Relevant to Planning and management of Hydro-Power Resources in the Greater Horn of Africa. Paper presented at the IGAD Workshop on the Socio-Economic Aspects of Resources Management relevant to Planning and management of Hydro-Power Resources in the Greater Horn of Africa, Nairobi, August, 2001.
- R.S. Odingo; Nyakwada and Kagia, J.N. (2002) Factoring Weather and Climate Information and Climate Change Products into Disaster Reduction strategies in Kenya: A contribution to Disaster Management Policies. IGAD/ DMCN, Nairobi.
- Odingo (2002) Climate and the Energy Sector in East Africa. Invited papers for the workshop of the Kenya Meteorological Society, Mombasa, 2002.
- Odingo, R.S. (2003) Review Report on the CP Pre-Proposal "The Challenge of Climate Change - Research to Overcome Its Impact on Food Security, Poverty and natural Resource Degradation in the Developing World", Prepared for CGIAR Secretariat. FAO/WFP, Rome, Italy, 2003.
- Odingo, R.S. and Ogallo, L. (2003) Drought in Eastern Africa - CLIVAR/UNIVERSITY OF ARIZONA/IPCC Workshop on Drought in Tucson Arizona. Papers presented to the workshop on Drought and Climate Change. Workshop on Drought Episodes and Climate Change, Tucson Arizona, November, 2003.

- Odingo, R.S. and Ogallo, L. (2003) Drought Occurrence in Eastern Africa Sub-Region, as witnessed from Palaeo- and Instrumental Climate records. Paper Presented to CLIVAR/University of Arizona/IPCC
- Odingo, R.S. (2004) Drought and Development Policy in Africa; scenarios of Climate Change and Implications for Food Security in Africa - Invited papers for UNDP/DDC workshop on Drought in Africa, Nairobi.
- Odingo, R.S. (2005) Post - Kyoto Negotiations- African Priorities. Invited Paper prepared for Meeting with African Ministers for Environment, UNEP Governing Council, February 24, 2005.
- Odingo, R.S. (2004) Opportunities and Barriers for Climate Change Policies in Developing countries and the contribution of the IPCC. Invited papers presented at the Berlin Conference in December, 2004 - Free University of Berlin.
- Odingo, R.S. (2004) Climate Change Impacts and Adaptation in Kenya. Papers presented at the IGAD/ICPAC workshop on Vulnerability and Adaptation to Climate Change, Kisumu, 2004.
- Odingo, R.S. (2004) Importance of Adaptation studies for Climate Change and Vulnerability. Paper presented to the Free University of Berlin on the Environment, December, 2004.
- Odingo, R.S. (2002) Climate Change and the Energy Sector in East Africa. Paper presented at the IGAD/ICPAC workshop on Climate Considerations and Power Production in Kenya. ICPAC, Nairobi. Meteorological Society, Mombasa, 2002.
- Odingo, R.S. (2005) International Policies and Protocols in Disaster Management - Paper presented to IGAD workshop in Disaster Management. IGAD/ICPAC, Nairobi, August, 2005.

COP 12/COP/MOP Book edited by J.Nganga and R.S. Odingo- Kenya; Response to Climate Change and Opportunities for Sustainable Development.-November, 2006.

Odingo, R.S. (2008) Climate and Human Health, Prepared for workshop on Climate change and Human health, 7th January 2008, Panafric Hotel, Nairobi.

Odingo,R.S (2008) Climate and Human Health in Africa and its Impact on economic development. Paper given as “Commencement Address to the School of Dentistry, Stonybrook University, Long Island, New York USA on Friday, 23 May, 2008.

Odingo, R.S. and L.A. Ogallo (2008) Drought Occurrences in Eastern Africa. Sub-Region as witnessed from Paleo- and Instrumental Climate workshop, Paper presented at the Clivar Workshop on Drought and Climate Change, Arizona, USA, January 2008. Published in the Proceedings of the Clivar Workshop.

Odingo, R.S. (2008) Climate Change in Sub-Saharan Africa; A study of impacts, Vulnerability, and Economic Policy Responses. African Economic Research Consortium (AERC), Addis Ababa, Ethiopia, 2008.

Odingo, R.S. (2008) Contributions to understanding climate Change Adaptation. IDRC Workshop on Climate Risk management. Safari Park Hotel, Nairobi

Odingo, R.S. (2008) Challenge of Global Warming and climate Change Adaptation in ACP Countries. Paper Prepared for CTA Workshop, Ouagadougou, Burkina Faso.

Odingo, R.S. (2008) The Challenges of Climate Change on the Tourist Industry in Kenya. Paper prepared for the Ministry of Tourism-Tourism Week, Malindi 2008.

_____. 2008. Climate Change in the IGAD Sub-Region of the Horn of Africa Countries. Paper Prepared for COF Meeting, Nairobi, 2008.

_____. 2008. Public Lecture on Global Climate Change and Implications for Global and National Security. University of Nairobi, 2008. To commemorate the Nobel Peace Prize Award. August, 2008.

Odingo, R.S. (2008) Climate Change and Economic development in Sub-Saharan Africa; Issues, Challenges, and Opportunities for Africa in the Decades ahead. Paper prepared for African Economic research Consortium, 20th Anniversary International Conference, Nairobi, April 2008.

Odingo, R.S. (2008) Quantifying Socio-economic benefits of Weather and Climate- Presented at the IGAD-COF meeting, Entebbe Uganda, 2008.

Odingo, R.S. (2008) Climate Change and Renewable Energy Issues in East Africa. Paper Prepared for the North-South Conference, Berne University, Switzerland, 2008.

Odingo, R.S. (2008) Climate Risk management training. African Development Bank, Tunis, July 2008.

Odingo, R.S. (2008) Climate Change and Human health in the 21st Century. Commencement address delivered at Stony Brook University, New York State, May, 2008.

Odingo, R.S. (2008) Post-Kyoto Negotiations and African priorities on climate Change. Meeting with African Ministers of Environment, UNEP/AMCEN, 24th February 2008.

Odingo, R.S. (2008) Quantifying the Socio-Economic Benefits of Weather and Climate. ICPAC-COF Workshop, Entebbe, Uganda.

Odingo, R.S. (2008) Climate Challenges to the Tourist Industry in Africa, Workshop organized by the Kenya Tourist Board, Ministry of Tourism, Malindi, Kenya..

- Odingo, R.S. (2008) The Kenya Carbon Assist Project. Consultancy Report prepared for the World Bank and Kenya Government.
- Odingo, R.S. (2008) Mitigation Briefs. Presented to Meteorological officers from the IGAD Sub-Region, Nairobi, Kenya Meteorological Department.
- Odingo, R.S. 2009. Global and regional impacts of Climate Change in Sub-Saharan Africa, and the Importance of Adaptation Programmes to reduce the resultant damage in vulnerable locations in the Continent. Wangeningen University Training programme for Policy makers, Addis Ababa, Ethiopia, 2009.
- Odingo, R.S. (2009) A Look at Climate Change and Human Mobility in Africa-paper presents at Cespi Workshop, Italian Ministry of Foreign Affairs, Rome, Italy April 2009.
- Odingo, R.S. (2009) Consolidated Report on the Second Consultative Carbon Assist Workshop in Kenya, held at the Windsor Golf Hotel, Nairobi, on behalf of the World Bank Carbon Assist Programme.
- Odingo, R.S. (2009) Revised National Guidelines for the Clean Development Mechanism (CDM) in Kenya. World Bank, Carbon Assist Workshop, Nairobi, 2009.
- Odingo, R.S. (2009) Climate Change and Human Health in Kenya. Panafric Hotel, Nairobi.
- Odingo, R., S., Ogallo, L., A., and Oludhe, C. 2009. Workshop Monograph on Climate Risk Management. Paper Prepared for IDRC Regional Office, Nairobi.
- Odingo, R.S. (2009) Impacts of Climate change on the Coastal Zone and Small Island States- GHACOF workshop, Mombasa, Kenya.
- Odingo, R.S. (2009) A look at the Intricacies of Climate change and its Impacts on Human Mobility in Africa. Paper prepared for AERC.

- Odingo, R.S. (2009) The Impacts and Implications of Global Climate Change for Economic Development in Africa. Paper prepared to AERC workshop on Economic Development in Africa. Addis Ababa, Ethiopia.
- Odingo, R.S. (2010) Climate change in Sub-Saharan Africa and its implications for Economic Development and for Peace and Security. Workshop Paper prepared for ICPAC.
- Odingo, R.S. (2010) The vulnerability of the GHA countries, Economic to climate change impacts; An analysis of the Dangers posed to our Region by Climate Variability and climate change. Paper presentation at the GHACOF, April 2010.
- Odingo, R.S. (2010) Climate change and its impacts- the Threat of climate change in Africa. COF, Arusha, Tanzania.
- Odingo, R.S. (2010) Demystifying the science of climate change. Paper presented to ESSEA conference and climate change and natural resource use in Eastern Africa, Kenya College of Communication, Mbagathi Nairobi May 2010.
- Odingo, R.S. (2010) The Rise of Green Technology and Economy. Can they guarantee the survival of Democracy in the 21st century? Buenos Aires, Argentina, Conference on Human Rights. Proceedings of the Workshop on Democracy and Human Rights in the World, Buenos Aires, Argentina.
- Odingo, R.S. (2010) Mitigation of Climate Change using Carbon Trading as well as changes in life-styles through Carbon footprints. Paper presented to the Soroptimist International conference on Human and Climate Change, Maseno University, October 2010.
- Odingo, R.S. (2010) External Shocks and Africa's Regional Organizations. Paper prepared for the Postdam Spring Dialogues Meeting 16-20 April 2010, Postdam, Germany.

- Odingo, R.S. (2010) Adaptation to Climate change workshop. Paper delivered to workshop of Meteorologists, ICPAC and Dagoretti Corner, KMD, Nairobi.
- Odingo, R.S. (2010) Climate change in Sub-Saharan Africa: A Study of Impacts, Vulnerability and Economic policy Responses. AERC, Addis Ababa, May 2010.
- Odingo, R.S. (2011) TWSA-ROSSA YOUNG SCIENTISTS CONFERENCE.
- Odingo, R.S. (2011) The security and Conflict Implications of a Changing climate in Kenya. Paper presented at the Kenya Government workshop in Mombasa 2011, April 2011.
- Odingo, R.S. (2011) Solar Radiation Management (SRM) and Climate Change Mitigation in GHA – The Devegor Arusha Workshop 2011.
- Odingo, R.S. (2011) A Rejoinder to the Team of the Global Rain Project who visited our reform last week promising to bring artificial rain to end the current drought in the Greater horn of Africa (GHA), Nation Newspaper, August 2011.
- Odingo, R.S. (2011) Africa’s Experiences with responding to Climate change: A look at the relevant institutions, Lecture to the China Met Agency, Beijing, September 2011.
- Odingo, R.S. (2011) The Security and Conflict Implications of Changing Climate. Paper presented at the Government workshop on Climate Change and Security, Mombasa, April 2011.
- Odingo, R.S. (2011) The Ecological Crisis and the Search for sustainable Development Solutions for the Renewal of the City of Napoli, Italy, Napoli paper presentation on the occasion of the 160 jubilee of the City. December, 2011, with His Eminence Cardinal Sepe. December, 2011.
- Odingo, R.S. (2011) SRM in Africa presentation to the SRM conference held in Johannesburg, South Africa – December 2012.

- Odingo, R.S. (2011) Year-score card on adaptation to climate change and Environmental Degradation in East Africa. Paper Presented at the CDF 29 Workshop, Entebbe, Uganda 1st September 2011.
- Odingo, R.S. (2011) Beijing Lecture on Climate Change and Africa 2011 – Paper delivered at the Chinese Academy of Sciences, Beijing 26 September 2011.
- Odingo, R.S. (2011) The Spectre of Climate Change in Sub-Saharan Africa. Paper Delivered at a Workshop, Climate Academy of Sciences, Beijing, October, 2011.
- Odingo, R.S. (2011) Energy Options and global Warning in the first half of the 21st century and Prospects for the Expansion of Nuclear Power distinguished Lecturer Presented at the Gucci foundation, in Resource Italy in July 2011.
- Odingo, R.S. (2011) Food and Energy Systems in Sub-saharan Africa; a study of the Implications of Climate Change Impacts and Vulnerability of Food Production and energy in Sub-saharan Africa, Nemetria Organisation, Italy. Distinguished Lecture Series Umbria, Italy, November 2011.
- Odingo, R.S. (2011) Overview of Regional Climate change Scenarios IPCC SRES scenario and suggested New Scenario Building for ARS. Paper presented at regional Meteorological Workshop, Dagoretti Corner, Nairobi, February 2011.
- Odingo, R.S. (2012) SRM ad AFRICA. Can SRM Save Africa from the present climate change disadvantage? A critique of SRM proposals, Dakar, Senegal, TWAS/Royal Society.
- Odingo, R.S. (2012) Technology Parks and their application in GHA countries, ICPAC 2012.
- Odingo, R.S. (2012) Solar Radiation Management (SRM) and Africa: Can SRM save Africa from The present climate change disadvantage –

- a critique of SRM proposals, workshop Paper Presented on African Perspective of SRM Dakar, Senegal 27 June 2012.
- Odingo, R.S. (2012) Renewable and low-carbon energy technologies and the development predicaments of Sub-saharan African Countries. Abstract 2012.
- Odingo, R.S. (2012) Climate Change Implications on Droughts and other climate Extremes in the Greater Horn of African COF 30 Kigali Rwanda.
- Odingo, R.S. (2012) Draft Report on Climate Change Compliances at the proposed IPAC Headquarters 2012. Report prepared for the Director of ICPAC 2012.
- Odingo, R.S. (2012) Regional aspects of global climate Change and its interactions with economic development in Sub-Saharan Africa AERC 2010.
- Odingo, R.S. (2012) Climate change Knowledge Capacity Development at ICPAC Report presented to Director of ICPAC 2012.
- Odingo, R.S. (2012) Theme Parks and Technology Parks in the IGAD countries 2012.
- Odingo, R.S. (2012) Climate Change Implications on Drought and other climate extremes in the Greater Horn of Africa, the threat of climate related Disasters – COF 31 Djibouti 2012 – Workshop Paper.
- Odingo, R.S. (2012) Is there any hope for climate change adaptation in Africa? Paper presented at the Climate Academy of sciences, Perking, climate 2011.
- Odingo, R.S. (2012) The search for effective new policy approaches to Disaster Risks Management in the Context of Global Climate Change ICPAC 2012.
- Odingo, R.S. (2012) Consultancy, Report on Climate Change and ICPAC's Finance; Presented to Director of ICPAC 2012.

Odingo, R.S. (2012) The Creation of Technological Park at the Proposed New ICPAC Headquarters in Ngong, Nairobi Kenya Workshop report – GHACOF 2012 March 2012.

Odingo, R.S, 2013 The threat of climate change to sustainable development of the GHA sub-region. Paper prepared for Workshop during GHACOF 33 Bujumbura, Burundi , February 2013.

3. NATIONAL AND INTERNATIONAL CONTRIBUTIONS:

- (i) Co-Chairman - National Climate Change Activities, Co-ordination Committee (NCCACC), Kenya-Inter-Ministerial Committee.
- (ii) For the Past Ten Years - Vice Chairman of the Intergovernmental Panel on Climate Change (IPCC) - WMO/UNEP. In December 2007 the IPCC shared the Nobel Peace Prize with Dr. Alexander Gore of the USA.
- (iii) Past Member (for five years), International Advisory Board on Sustainable Development- Battelle North-West Pacific Laboratories- US Department of Energy. Washington DC and Washington Seattle, USA.

The International Advisory Board on Sustainable development consisted of the following Distinguished Persons:

Dr. Fransisco Barnes-Mexico
The Hon Richard Benedick-USA
Professor Harvey Brooks-USA
Dr. Jiro Kondo-Japan
Professor the Lord Desai of St. Clemens Danes-UK
Professor George Golitsyn- Russia
Pragya Dipak Gyawali-Nepal
The Honorable Thomas Hughes-USA
Dr. Hoesung Lee-South Korea
Professor Richard Odingo-Kenya
Professor Thomas Schelling-USA

The International Advisory Board on Sustainable Development Board
oversaw the publication of a 4-Volume Book on
“Human Choice and Climate Change”

VOI-1-The Societal Framework

Vol 2-Resources and Technology

Vol. 3-Tools of Policy Analysis

Vol. 4.What Have we learned?

The four Volumes were edited by Steve Raynor and Elizabeth L.
Malone

- (iv) Member of Editorial Board - Joint Implementation Magazine,
Published in the Netherlands. RIVM.
- (v) Member of the International Editorial Board- International
Journal of Climate Change Strategies and Management.
- (vi) Member if Editorial Team for- Guidebook Addressing Climate
Change Challenges in Africa: A Practical Guide to Sustainable
Development-UNEP/AMCEN and AU January 2012.
- (vii) Member-International Advisory Board- International Journal of
Climate Change strategies and Management-Emerald Group
Publishing. Germany.

2008/2009 ARTICLES AND WORKSHOP REPORTS

Odingo, R.S. 2009. Global and regional impacts of Climate Change in
Sub-Saharan Africa, and the Importance of Adaptation Programmes to
reduce the resultant damage in vulnerable locations in the Continent.
Wangeningen University Training programme for Policy makers, Addis
Ababa, Ethiopia, 2009.