

CURRICULUM VITAE – JOY OBANDO

1.0. PERSONAL INFORMATION

Name: Obando Joy Joan Apiyo
Nationality: Kenyan
Education: PhD, Geomorphology, Kings College, London University
Current Position: Associate Professor, Department of Geography, Kenyatta University



Webpage: <http://www.ku.ac.ke/schools/humanities/index.php/faculty/faculty-profiles?id=227> e

1.1. CONTACT ADDRESS

Department of Geography, School of Humanities and Social Sciences, Kenyatta University
 P. O. Box 43844 00100, Nairobi, Kenya
 Office Tel: + (254)-020-8710901-19, Ext 57321
 Mobile Tel: + (254)-722-966-134
 Email Addresses: | obando.joy@ku.ac.ke | obandojoy@yahoo.com

1.2. LANGUAGES

Language	Reading	Speaking	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Good	Good	Basic
French	Basic	Basic	Basic
Spanish	Basic	Basic	Basic
Luhya	Good	Good	Basic

2.0. QUALIFICATIONS

Institution	(Date from - Date to)	Degree(s) or Diploma(s) obtained:
University of London	October 1992 – February. 1997	PhD (Geomorphology)
Kenyatta University	September 1988 – February 1990	MSc (Geography)
Kenyatta University	September 1983 – June 1986	BEd (Sc) (Geography Mathematics) 2nd Class (Hons Upper Div.)
Nairobi Girls High School	January 1980 – December 1981 January 1976 – December 1979	Kenya Advanced Certificate of Education (KACE - 1981) Kenya Certificate of Secondary Education (KCE - 1979)
Kongoni Primary School	January 1972 – December 1975	Certificate of Primary Education (CPE – 1975)

2.1. PH.D. THESIS

Obando, J.A. (1997). *Modelling the Impact of Land Abandonment on Runoff and Soil Erosion in a Semi-Arid Catchment, Rambla del Chortal, Spain.*

2.2 M.SC. THESIS

Obando, J.A. (1990) *Some Physical Characteristics of Sediments Eroded from Runoff Plots and Their Comparison with the Soil Surface on two Slopes in Githunguri, Kiambu District, Kenya.*

2.3 BACHELORS RESEARCH PAPER

Obando, J.A. 1986 *Landuse and Slope Angle in Gathenje, Kiambu District, Kenya*

2.4 PROFESSIONAL COURSES

- a) *Certificate of Computing Literacy: Computing for Humanities*, Computing Centre 1995. King's College, London, U. K.
- b) *Certificate on Physical and Socio-economic Aspects of Desertification* 1993. European School of Climatology and Natural Hazards, Pueblo Acanilado, Spain.
- c) *Spanish Lower Intermediate Course*, Language and Communications Centre King's College London, School of Humanities, Strand. 1993-1994.
- d) Refresher Course on *Innovative application of Remote Sensing and Geo-information Sciences for Female Professionals in the Earth Sciences*, Cairo, Egypt. November 3 – 16th 2006 National Authority for Remote Sensing and Space Sciences
- e) Refresher Course on *Geoinformation for Environmental risk management in Africa: A contribution to the University Network for Disaster Risk Reduction in Africa.*, June 13th – 23rd 2006 at the Regional Centre for Mapping of Resources for Development, Nairobi, Kenya
- f) ITC Refresher Course on *Natural Disaster Risk Reduction in Africa*, Department of Geography, Makerere University, Uganda, 12- 23 September 2005

2.5 COMPUTER TRAINING AND KNOWLEDGE

- a) Programming and modelling Visual basic, QuickBasic and databases.
 - b) Working knowledge of Climate Change modelling including: PRECIS Model, MAGIC-SCEGEN
 - c) Geographic Information systems, ArcView, Surfer, ILWIS
 - d) DOS, MS-DOS, Windows, Windows NT, Windows XP, Windows 95 and Windows 2000 Operating Systems. Microsoft Suite (Word, Excel, Power point, Desktop Publisher).
 - e) Corel Draw and Photo-paint
 - f) Adobe Photoshop, Adobe Reader and Writer
-

3.0. FELLOWSHIPS AND SCHOLARSHIPS AWARDED

2003: Short term research Scholarship from Deutscher Akademischer Austauschdienst (DAAD) for Research and study in GIS at the Fachringtung Physische Geographie, Institut fur Geographische Wissenschaften, Fachbereich Geowissenschaften, Freire Universitat, Berlin April 8th – July 8th, 2003

1992-1996: Commonwealth Academic Staff Scholarship from The Association of Commonwealth Universities, U. K. for Ph.D. Degree and Research at King's College, University of London, 1992 –1996

1988-1990: Kenyatta University Postgraduate Scholarship to MSc. Degree and Research at Kenyatta University 1988 – 1990

3.1. TRAVEL GRANTS

2012: International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) Third Write Shop End of programme, 19-23 Nanyuki, Kenya

2012: : International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) Second Write Shop , 24-27 Addis Ababa, Ethiopia

2011: International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) UNFCCC Conference of Parties (COP 17), Durban, South Africa, 01 -07 December, 2011

2011: International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) Technical Experts Network, Progress Review Workshop, Cape Town, South Africa, 27 -30 November, 2011

2011: International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) First Write shop on Institutional Vulnerability - change Impacts, Saly Mbour, Senegal, 31 October - 3 November 2011

2011: International Development Research Centre – Travel grant for the Climate Change Adaptation in Africa (CCAA) TEN Inception Workshop, Nairobi, Kenya June 27, 2011

2008: International Development Research Centre – Travel Grant for the Participatory Action Research in Ethiopia, September 8th 2008

2008: United Nations Educational Scientific and Cultural Organization – for Association of African Women Geoscientists Conference, Cairo Egypt, April 3rd, 2008

4.0. EMPLOYMENT RECORD

ADMINISTRATIVE EXPERIENCE

Country: Kenya

Dates: Appointment February 2009 to October 2014

Position: Director, Financial Aid Office

Employer: Kenyatta University

Description of Duties:

- Oversee the award of scholarships for Orphans and Vulnerable students by:
 - Advertising the scholarship to the general public.
 - Using the set criteria to make recommendations for the award.
 - Follow up to ensure that the recipients are progressing on well with their studies and maintaining the required average grade.
 - Follow up all the pledges as made during the fundraising.
 - Continuously seek other sources of funding to beef up the scholarship fund.
- Liaise with the finance office to keep track of the funds and any interest accrued from the bank on any investment.
- Liaise with the Bursary Committee under Teaching Programmes to avoid double beneficiaries.
- Liaise with Higher Education Loans Board (HELB) to ensure:
 - Students do not benefit twice.
 - Those we give partial scholarships are able to get top up from HELB.
- Advice and direct to other sources of financial help other than the OVS fund.

Staff: Supervising 4 members of staff (Administrative Assistant, Secretary, Messenger/Gardener and Cleaner/Tea person)

Working with a Board of 8 persons

Country: Kenya

Dates: September 20th 2011 to Present

Position: Associate Professor

Employer: Kenyatta University

Description of Duties: Teaching, student advisory and mentoring. Courses include: Integrated Watershed Management, Geomorphology and Disaster Management

Country: Kenya

Dates: July 2003 to September 19th 2011

Position: Senior Lecturer

Employer: Kenyatta University

Description of Duties: Teaching Integrated Watershed Management, Computing for Watershed Management, Watershed Degradation and Rehabilitation, Hydrological Processes and Watershed Modelling, Watershed Evaluation, Applied Geomorphology, Ecological and Contemporary Biogeography

Member to committees at Departmental and School level

Country: Kenya

Dates: July 1992 to July 2003 (5 years with study leave from October 1992 - February 1997)

Position: Lecturer

Employer: Kenyatta University

Description of Duties: Teaching Physical Geography (General and Regional), Arid and Semi-Arid Lands, Statistical Techniques, Research methodology, Map Analysis, Environmental Conservation, Geomorphology, Soil Geography, Biogeography and Environmental Conservation.

Member to committees at Departmental and School level

Country: Kenya

Dates: 1990 to 1992 (2years)

Position: **Tutorial Fellow**

Employer: Kenyatta University

Description of Duties: Demonstrating in Geography Practical classes and fieldwork for senior members of staff. Teaching Map Analysis

Country: Kenya

Dates: November 1989 to 1990 (2 years)

Position: **Graduate Assistant**

Employer: Kenyatta University

Description of Duties: Demonstrating in Geography Practical classes and fieldwork for senior members of staff. Teaching Map Analysis, while carrying out MSc Research

Country: Kenya

Dates: 1987 to 1988 (1 year)

Position: **Graduate Teacher**

Employer: Teachers Service Commission, Sironga Girls High School

Description of Duties: Teaching Geography and Mathematics,

Other Activities: Mentoring of students, sports and club activities

4.1. OTHER KEY QUALIFICATIONS/EXPERIENCE

KEY AREAS OF EXPERIENCE	KEY QUALIFICATIONS/EXPERIENCE
1. Qualification and Experience working with GIS, and data processing skills	Working experience of ILWIS and involvement in GIS workshops within the region, including Kenya User Group in GIS and ESRI member. Development and teaching of a course in Computing for Watershed management at the Department of Geography
2. Computer Programming	Developed and calibrated model on soil erosion for semi arid areas using Quick basic
3. Integrated Water Resources Management	Involved in development of Masters Programme in Integrated Watershed and organization and participation in workshop for community user groups and other stakeholders in IWM

4. Developing Climate Change Scenarios	Experience in using PRECIS and MAGIC-SCEGEN models for developing climate change scenarios, using Northern Kenya with ICPAC
5. Experience as facilitator and organizer of Conferences, workshops, seminars	<ul style="list-style-type: none"> • Capabilities for facilitating and organizing conferences and workshops at national and international levels for varied groups of stakeholders. • Involved in development of Gender Policy, Mentoring Policy and Strategic Plan for Geography Department. • Involved in curriculum development at School for Humanities and Social Sciences to improve quality of programmes • Developing modules for teaching as well as vetting for programmes at Kenyatta University • Developed guidelines for writing proposals for New Programmes in the School of Humanities and Social Sciences

5.0. ADMINISTRATIVE RESPONSIBILITIES

5.1. UNIVERSITY LEVEL

1. **Member**, University Research Advisory Board (URAB), 2016 to present
2. **Member**, International Conference on Water Security and Climate Change Committee, November 2017 – December 2018
3. **Chairman**, Committee for Re-Accreditation of KUSOL, December 2015 to December 2016
4. **Chairman**, Advisory Centre for Career Development and Placement Board, June 2015 to present
5. **Member**, Committee to Prepare a Documentary on Orphans and Vulnerable Students, December 2011 to present
6. **Secretary**, Orphans and Vulnerable Students Fund Management Board, February 2009 to October 2014
7. **Chairman**, Market Survey Committee, Also Representing School of Humanities and Social Sciences, February 2009 to October 2014
8. **Member**, Board of Centre for Career Development and Attachment Programme, 2006 to June 2015
9. **Member**, Kenyatta University Bursary Committee – March 2009 to October 2014

5.2. SCHOOL LEVEL

1. **Chairperson**, School of Humanities and Social Sciences, Academic Advisory Board, August 2011 to July 2013
2. **School Academic Advisor**, School of Humanities and Social Sciences, 2005 to present

5.3 DEPARTMENTAL LEVEL

1. **ISO Committee:** Department of Geography, 2018 to present
2. **Post graduate Academic Advisor,** Department of Geography, 2008 to present
3. **Convenor, Curriculum Review Committee,** Physical Geography - January 2013 to present
4. **Coordinator,** Integrated Watershed Management (IWM) Master Programme, Department of Geography, August 2007 to present
5. **Chairman,** Departmental Teaching Allocation Committee, Department of Geography, 2008 – present
6. **Member,** Geography Department Postgraduate Studies Committee 1997 – present
7. **Member,** Curriculum Committee, Department of Geography, August 2007 – present
8. **Member,** Appraisal and Promotions Committee, Department of Geography, August 2007 – 2013
9. **Chairman,** Geography Department Welfare Club, August 2009 - 2015

6.0. POSTGRADUATE SUPERVISION

6.1. PHD SUPERVISION (COMPLETED)

SN	Name	Registration Number	PhD Research Project	Supervisors	Status
1.	Manoah Muchanga	University of Zambia	Determination of Sediment, Water Quantity and Quality for SWAT modelling of sedimentation in the Makoye Reservoir, Southern Province, Zambia	Prof. Henry Sichingabula Prof. Joy Obando	PhD Geography Graduated October 2020
2.	Cush Ngonzo Luwesi	Kenyatta University I56/ /2010	Downstream-upstream farmers' response-capacity to implementation of green water saving schemes in south-east Kenya	Prof. Shisanya Prof. Obando	PhD Integrated Watershed Management Graduation July 2015
3.	Kilonzo, Fidelis Ndambuki,	Vrige Universiteit	Assessing the Impacts of environmental changes on the water resources of the Upper Mara, Lake Victoria basin	Prof. Bauwens Prof. Obando	PhD Graduated January 2014
4.	Turyabanawe Loy Gumisira	Kenyatta University C82/10885/06	Impacts of Geomorphic processes and land use activities on slope instability in Mt. Elgon region, Eastern Uganda, PhD Geomorphology	Dr. Murimi Prof. Obando	PhD Geomorphology Graduated December 2014
5.	Gilbert Muthee Mwoga	Kenyatta University N85/13608/20 09	Topo-sequence Analysis of Land Use Changes and Implications on Livelihoods	Dr. Waswa Prof. Obando	PhD Environmental Studies,

			among Smallholder Farmers in Meru County, Kenya		Graduated December 2014
6.	Shadrack Kiana Murimi	Kenyatta University I84/7556/97	Environmental Impact Assessment of Soil and Water Resources in the catchment of Lake Nakuru	Dr. Prasad Dr. Obando	PhD Graduated May 2008

6.2. ONGOING DOCTORAL RESEARCH SUPERVISION

SN	Name	Registration Number	PhD Research Project	Supervisors	Status
1.	Kathuri James Ndwiga	Kenyatta University C82/10893/08	Assessment of Food Insecurity in Eastern Province of Kenya PhD Geography	Dr. Kisovi Prof. Obando	PhD Geography Submitted thesis for examination
2.	Sarah Mutua	Vlir University, Belgium	Ground water – surface water interaction in a dynamic tropical climate: the case of Nyando River in Western Kenya	Prof. Marijke Huysmans Prof. Joy Obando	PhD Hydrogeology Final thesis draft December 2020
3.	Dikko Jeff Gafna	Karlsruhe Institute of Technology	Drivers of distribution and diversity of medicinal plants in savannah drylands: A case study from Kenya	Prof. Dr. Sebastian Schmiddlein, Prof. Obando Dr. Klara Dolos	PhD Biogeography Final thesis draft December 2020
4.	Moses Kagiri Muuo	Kenyatta University I84/22447/2017	Hydrological Modelling of Water demand and supply trends for sustainable management of Ndarugu-Thiririka sub-catchment, Kiambu County	Prof. Joy Obando Dr. Mary Makokha Dr. Paul Njihia Gichuhi	PhD Hydrology and Water Resources Thesis draft December 2020
5.	Moses Karugi Muriuki	Kenyatta University I84/37389/2017	Effects of land use changes on water and pasture in Lagha-Bor catchment, Wajir County, Kenya	Prof. Joy Obando Dr. Mary Makokha	PhD Integrated Watershed Management Thesis writing December 2020
6.	Agnes Wamuyu Wamai	Chuka University	The nature and extend of domestic roof rainwater harvesting in Kitui County, Kenya	Prof. Stephen Wambugu Prof. Joy Obando	PhD Geography Proposal Development

6.3. MASTERS RESEARCH SUPERVISION (COMPLETED)

SN	Name	Registration Number	Masters Research Project	Supervisors	Status
1.	Mercy Kirui	I56/27340/2014	Effects of land uses on spring water quality in R. Malegat sub-catchment, Kericho County	Prof. Obando Dr. Obiero	MSc (Hydrology and Water Resources) Graduated December 2020
2.	Philip Gathogo	C50/CE/26072/2014	Morphological impacts of sand mining to the seasonal Tyaa river in Kitui county, Kenya.	Prof. Joy Obando Dr. Ishmael Mahiri	MA (Geography) Graduated December 2020
1.	Tabitha Tilji	C50/20115/2012	Effects of Soapstone Quarrying on Geomorphoc and Socio-Economic Aspects in Tabaka Region, Kisii County Kenya	Prof Obando Dr. Murimi	MA Geography Graduated July 2019
2.	Moses Karugi Muriuki	I56/26687/2013	Evaluation of Effects of Human Activities on Wetland Hydrology in Ewaso Narok Wetland, Laikipia County, Kenya	Prof. Obando Prof. Bernd Diekrugger	MSc (Integrated Watershed Management), Graduation 2017
3.	Immaculate Tumuhimbise	I56EA/20538/2012	Effects of land use practices and its cover change on Namulonge sub-catchment, Wakiso District, Central Uganda	Prof. Obando Dr. Bamutaze	MSc (IWM) To Graduation 2017
4.	Asempah Mawuli	I56F/27106/2014	Gender Differentials in Adaptation of Agro Forestry Technologies for Climate Change Adaptation among Small Holder Farmers in Muooni Watershed, Machakos County, Kenya	Prof. Obando Prof. Shisanya	MSc (Integrated Watershed Management), Graduation December 2016
5.	Pendo Samson	Kenyatta University I56/EA/20380/2010	Towards Integrated Water Resource Management through Domestic Rainwater Harvesting for Muooni Catchment, Machakos County-Kenya	Prof. Obando, Dr. Mahiri	MSc (IWM) Graduation July 2016
6.	Ronoh Leonard Kiprotich	C50/CE/22299/2010	An Assessment of effects of human activities on vegetation characteristics in Chepalungu Forest, Bomet County, Kenya	Prof. Obando Dr. Murimi	MA (Geography) Graduation July 2016
7.	Khatib Mwadini	I56EA/21668/2012	Irrigation Water Demand Management Practices and Their Effects on Water Allocation Among Farmers in Kiladeda Sub-Catchment, Tanzania	Dr. S.K. Murimi Prof. J.A. Obando ,	MSc (IWM) Graduation July 2016

8.	Mwendwa Georgia Ndanu	I56/20536/2012	The Potential for Roof Catchment Rainwater Harvesting and Storage based on Climatic and Socioeconomic Influence in Upper Mikuyuni Sub-Catchment, Kenya	Prof. Obando Dr. Murimi	MSc (IWM) Graduation December 2015
9.	Ontumbi George Morara	I56/CE/20778/2012	The Influence of Landuse activities on water quality of the Sosiani River Catchment in Uasin Gishu County	Prof. Obando Dr. Ondieki	MSc (Hydrology and Water Resources) Graduation, December 2015
10.	Susan Kangume	I56EA/22215/2011	Perceived effects of climate variability and coping strategies among farming communities of Bufundi Sub-Catchment, Kabale District, South Western Uganda	Prof. Obando Prof. Majaliwa	MSc (IWM) Graduation July 2015
11.	Njuguna Jonathan Chege	Kenyatta University I56/13007/2009	Analysis Of Run-Off And Plant Nutrient Drain From Four Vegetations In South Kinangop Forest Of Aberdare Catchment.	Prof. Obando Dr. Murimi	MSc (Integrated Watershed Management) Graduation July 2015
12.	Juvenary P. Madyanga	Kenyatta University I56EA/20394/2010	Farmer's Innovation in Surface Runoff Management Practices for Sustainable Watershed Management in Magamba Sub catchment, Tanzania	Prof. Obando, Dr. Makokha	MSc (Integrated Graduation December 2014
13.	Reuel Waithaka Kamau	Kenyatta University, I56EA/12145/09	Assessment of Vulnerability of Water Resources to Climate Variability in Mara River Basin, Kenya	Prof. Obando Prof. Shisanya	MSc (Integrated Watershed Management) Graduation July 2014
14.	Geofrey Gabiri	Kenyatta University I56EA/22203/2011	Effects Of Climbing And Bush Beans Cultivation On Soil And Nutrient Losses In Bufundi Sub Catchment, South Western Uganda	Prof. Obando Prof. Tenywa	MSc (Integrated Watershed) Graduation December 2013
15.	Sitsofoe Draphor	Kenyatta University, I56F/22308/2011	Perception Of Households' On Water Access And Management Dynamics In Kiambu County, Kenya	Prof. Obando Dr. Obiero	MSc (Integrated Watershed Management) Graduation December 2013
16.	Ann Waithaka	Kenyatta University, I56/CE/14349/2009	An Investigation Of Socio-Economic Factors Affecting Community-Managed Rural Water Supply Projects In Ndarugu-Thiririka Sub-Catchment, Athi Basin	Prof. Kisovi, Prof. Obando	MSc (Hydrology and Water Resources) Graduation December 2013

17.	Mathew Mugechi:	Kenyatta University, C50/5787/02	Vegetation effects protected and unprotected areas in Samburu	Prof. Obando Dr. Njue	MA, Department of Geography Graduation July 2013
18.	Amos Nkpeebo	Kenyatta University I56F/20377/2010	Towards Sustainable Energy Consumption- Monitoring the Limiting factors and Possibilities of Solar Energy for Households and Industrial needs in Ngaciuma-Kinyaritha	Prof. Shisanya Prof. Obando,	MSc (Integrated Watershed Management) Graduation July 2013
19.	Jean-Marie Mushinzimana	Kenyatta University, I56EA/12094/09	Effect of water supply management on the socio-economic welfare of Southern Bugesera Community, Rwanda	Prof. Obando Prof. Mutisya	MSc Integrated Watershed Management, Graduation June 2012
20.	Samuel Kirera Jacob Muthuri	Kenyatta University, I56/10104/2007	Analysis of Some Soil Physical Properties on Water Availability in Ngaciuma-Kinyaritha Sub-Catchments, Upper Tana Basin, Kenya	Dr. Murimi Prof. Obando	MSc Integrated Watershed Management, Graduation June 2012
21.	Caleb Ouma	Kenyatta University, N50/10231/2006	Post drought recovery strategies among the Turkana pastoralists in Turkana Central District	Dr. Olukoye Dr. Obando Dr. Koech	MSc. Environmental Science, May 2011
22.	Simon Alufah	Kenyatta University, I56F/10418/2008	Factors Influencing the Adoption of Soil and Water Conservation Technologies in the Ngaciuma Sub-Catchment, Upper Tana Catchment, Kenya	Prof. Shisanya Dr. Obando	MSc Integrated Watershed Management, November 2010
23.	Musuva Peter	Kenyatta University, I56/10712/06	The Effects of Land Use on Water Resource Availability and Accessibility in Muooni, Machakos District	Dr. Obando Dr. Makokha	MSc. (Integrated Watershed Management), Department of Geography July 2010
24.	Rapheal Kweyu	Kenyatta University, I56/12598/05	Analysis of Spatial Distribution of Tree Resources as Influenced by land use categories in River Sio Basin	Dr. Obando Dr. Murimi	MSc (Geography). Department of Geography December 2009
25.	Cush, Ngonzo Luwesi,	Kenyatta University, I56/10713/2006	An Evaluation of Efficient use of Agricultural Watershed Resources Under Fluctuating Rainfall Regimes at Muooni Dam Site, Machakos District, Kenya	Prof. Shisanya Dr. Obando	MSc. (Integrated Watershed Management), Department of Geography, September 2009

26.	Nina Valentinova Neykova	Universitat Trier Department of Geobotany	Water Relations and root distribution of monoculture and intercropping systems in the Central highlands of Kenya,	Prof. Frank Thomas Dr. Obando (Field supervisor in Kenya)	Diploma Thesis, June 2009
27.	Elly Ajigoh	Kenyatta University	Modelling the Hydrology in the Nyando Basin, Kenya, Masters in Hydrology,	Dr. Ondieki Dr. Obando	MSc (Hydrology and Water Resources), Department of Geography 2009
28.	Winfred Ndege	Kenyatta University, C50/7858/2002	The Effects of Ecotourism of Community Livelihoods and Natural Resources in Kajiado District,	Dr. Obando Dr. Mahiri	MA (Geography), Department of Geography(2008)
29.	Brenda Nekesa Oduor	Kenyatta University, C50/8386/97	The Effect of Quarrying on Surface Stability and Socio-Economic Aspects in Nairobi and Environs	Dr. Obando Dr. Mahiri	MA(Geography, Department of Geography (2008)
30.	Jane Njoroge	E35/0886/09	The level of awareness and usage of GIS among selected organizations in Nairobi	Dr. Obando Dr. Kayi	Completed 2012 (Research project)

6.4. MASTERS SUPERVISION (ON GOING)

SN	Name	Registration Number	Masters Research Thesis	Supervisors	Status
1.	Bukoma Emmanuel	C50/CE/26130/2011	Runoff under varying vegetation in ASALS, North Pokot	Prof. Obando Dr. Murimi	MA (Geography) Thesis examination
2.	Judith Miriam Adongo	I56/30991/2015	Hydro-chemical analysis of groundwater systems in Kamiti-Marengeta sub-catchment, Kiambu county	Dr. Mary Makokha Prof. Joy Obando	MSC Hydrology and Water Resources Submission notice December 2020
3.	Daniel Wachira	C50/OL/CTY/24819/14	Assessment of soil erosion hazards : a case study of Kambiti sub catchment, Kenya	Prof. Obando Dr. Murimi	MA Geomorphology Submission notice December 2020
4.	Fred Kandawalla	C50/CE/27859/2013	Analysis of Susceptibility of Chetambe Hills to Landslides and Their Socio-Economic Significance in Bungoma County, Kenya	Prof. Obando Dr. Kweyu	MA (Geography) Submission notice December 2020
5.	Hilda Kisela	I56EA/27486/2014	Determinants of adoption of open and zero grazing systems in Miyombo Sub-catchment, Kilosa District, Tanzania	Prof. Joy Obando	Completed to Graduate MSC (IWM) - Corrections

6.	Anthony Njoroge Munyiri	C50/CE/2452 2/2011	Assessing the Management of Community Managed Water Projects on Food Security in Naro-Moru Location, Nyeri County, Kenya	Prof. Obando Dr. Murimi	MA (Geography) Submission forms January 2019
7.	Rose Njage	C50/CE/2560 4/2014	Assessment of Impacts Of Land use Activities On Watershed Functions In Tungu River Sub-Catchment In Tharaka Nithi County, Kenya	Prof. Obando Dr. Murimi	MA (Geography) Working on final draft December 2020
8.	Melanie Masesa	I56EA/20378/ 2010	Analysis of Policy Instruments Implementation in Management of Water Resources in Tobora Catchment, Tanzania	Prof. Obando Dr. George Makokha	MSc Hydrology and Water Resources Thesis writing December 2020
9.	Moses Tsuma	I56/31467/20 15	Evaluating demographic changes and rainfall variability on the hydrogeology of Kenyatta university and its emerging environs, Nairobi county	Dr. Mary Makokha Prof. Joy Obando	MSc Hydrology and Water Resources Thesis writing January 2019
10.	Omweri Mayaka Zacharia	I56/33503/20 14	Drivers of Land Degradation and Farmers Perspectives in Adopting Soil and Water Conservation Technologies in West Pokot, Kenya	Prof. Obando Dr. Ishmail Mahiri	MSC IWM First draft May 2019
11.	Lorna Nyaga	I56/28882/20 14	Effects of Changing Institutions on Water Resources Management in Wei Wei Valley, Pokot, Kenya	Prof. Obando Dr. Ishmail Mahiri	MSC IWM Thesis writing May 2019
12.	Kamindu Jane Muthoni	C50/CE/2426 8/2012	Effects of human activities on land use change in Rumuruti, Laikipia County	Prof. Obando Dr. Sinda	MA (Geography) Fieldwork approval January 2019
13.	Margaret Wairimu Njogu	C50/23052/20 13	Evaluation of the effects of the Mt. Kenya Elephant Corridor in mitigating human elephant conflict in the Mt. Kenya region	Dr. Macharia, Prof Obando	MA (Geography) Draft thesis submitted January 2019
14.	Jacob Muringi	I56/CE/26534 /2013	Determining the Impacts of Human Activities on Streamflow on River Kombeni Sub-Catchment, Kilifi County, Kenya	Dr. Murimi Prof. Obando	MSc (Geography) Proposal submitted to Graduate School January 2019

15.	Nyang'au Simon Masongo	C50/CE/2503 0/2014	Determining Water Quality Status on Livelihoods within Upper River Gucha Watershed in Nyamira County, Kenya.	Prof. Obando Dr. Mary Makokha	MA Geomorphology Proposal submitted to Graduate School January 2019
16.	Wambulwa C. Liambila	C50\25784\20 14	The influence of land use activities on soil erosion on Maturu hill slopes in Kakamega County	Prof. Obando Dr. Muiruri	MA Geomorphology Proposal Development – January 2019
17.	Chamia Mutuku	I56/24927/20 13	Hydrosocial Determinants of Household Water Insecurity for Sedentarised Pastoralists in Maralal Town, Samburu County	Prof. Obando Dr. Ishmail Mahiri	MSC IWM Proposal Development December 2020

6.5. SUPERVISION AND MENTORSHIP

- a) **Host Mentor: February 2016 - January 2018**; Volkswagen Stiftung funding initiative for African postdoctoral fellow, Paul Roden Project Title: *A Multi-Perspective Evaluation of Land Degradation in a Dryland Environment (Central Pokot, Kenya)*
- b) **Host Mentor and Advisor: February - November 2012**; Fellowship Award under the African Climate Change Fellowship Program (ACCFP) – Francis Omondi Edward Opiyo, **Project Title:** *Assessing Impacts of Climate Variability on Vulnerability and Adaptation Strategies among Turkana Pastoralists of North western Kenya*
- c) **Local Supervisor: 2009 - 2013**, Scholarship under Agreement between the Vrije Universiteit Brussel, Kenyatta University (Geography Department) VLIR and Kilonzo, Fidelis Ndambuki, **PhD Title:** *Assessing the Impacts of Climate Change on Hydrology and Water Resources of the Mara river basin (East Africa) and the adaptation options*
- d) **Supervisor and Thesis Advisor: October 2011 - September 2012**, Transboundary Water for Biodiversity and Human Health in the Mara River Basin (TWB-MRB) Sub contract between Kenyatta University and the Florida International University Board of Trustees (Mara Scholars Glows Program) Reuel Kamau Waithaka **MSc Title:** *Assessment of Vulnerability of Water Resources to Climate Variability in Mara River Basin, Kenya*

6.6. HOST ACADEMIC STAFF

Host of Dr. Klara Dolos from the Karlsruhe Institute of Technology, Germany as guest lecturer at Department of Geography, 20th March and 16th April 2017

7.0. CONFERENCES/SEMINARS/WORKSHOPS

7.1 PARTICIPATION OF CONFERENCES/WORKSHOPS

- 2020 WATERNET Special Session Virtual ‘Upscaling sustainable food and water security research in drylands of sub-Saharan Africa’, October 28th 2020

- 2020 Summerschool
- 2020 Policy workshop
- 2020 SARIMA South African Research & Innovation Management Association, Virtual Conference, 4-6 August 2020
- 2020 BRECCIA Annual Research Meeting, Virtual, 6- 9 July 2020, Hosted by Ghana Research team
- 2019 BRECCIA Annual Research Meeting in Salima, Malawi Building Research Capacity for sustainable Water and Food Security in Sub-Saharan Africa' 14-19, July 2019
- 2019 BRECCIA Summer School, Inter Disciplinary Research, Lilongwe, Malawi, July 8th – 13th, 2019
- 2018 DIES Training as Regional Expert: Practical-oriented Training for New Researchers, University of Namibia, Windhoek, November 5th to 9th 2018
- 2018 UK Research and Innovation (UKRI) and the Swiss Commission for Research Partnerships with Developing Countries (KFPE) Workshop in Dar es Salaam, Tanzania, 12th -14th September 2018
- 2018 BRECCIA Research Consortium Workshop in Kisumu, Kenya, 'Building Research Capacity for sustainable Water and Food Security in Sub-Saharan Africa' 9-13, July 2019
- 2018 Trainer for Kenyatta University PowerPoint and poster presentations Workshop: Nairobi, Kenya October 15th and 16th 2018
- 2018 DIES ProGRANT Regional Expert Workshop 2018: *Higher Education in an International Context*, July 18th – 20th, 2018 in Cologne, Germany
- 2018 Building Research Capacity for Sustainable Water and Food Security in Sub Saharan Africa Kisumu (BRECCIA), Project Inception Workshop, Kenya July 9th – 13th 2018
- 2017 Trainer for Kenyatta University Research Grant Writing Workshop: Nairobi, Kenya June 28th - 29th, 2017, July 26th -27th 2017
- 2017 Trainer for Kenyatta University Postgraduate Workshop: Designing Effective Powerpoint Presentation, Nairobi, Kenya June 27th, 2017, August 31st 2017
- 2017 Trainer for CODESRIA College of Academic Mentors Institute, Nairobi, Kenya April 10- 20th, 2017
- 2017 DIES expert workshop "*Quality Doctoral Education - A Prerequisite for Strong Universities in Africa - Curriculum Design Supervisor Training*". Cape Town, South Africa from 26 - 29 March 2017, Organized by German Academic Exchange Service
- 2106 DIES Seminar, Quality Doctoral Education – A prerequisite for strong universities in Africa, September 26 – 28, 2016, Nairobi. Organized by the German Academic Exchange Service.
- 2016 Alumni Workshop Jimma Ethiopia: "*Climate Change and Environmental Project in East Africa*". The workshop is organized by the University of Rostock with funding from the German Academic Exchange Service (DAAD) 27th August to 4th September, 2016, Jimma University, Ethiopia
- 2016 WARREC Strategic Plan Stakeholders Validation Workshop at Jomo Kenyatta University of Science and Technology, May 6th, 2016, JKUAT, Nairobi

- 2016 The General Assembly for the Globe Project on '*Wetlands in East Africa: Reconciling future food production with environmental protection*' held from May 30th to June 2nd 2016, University of Bonn, Germany
- 2015 General Assembly GLOBE Project - Integrative German-African Project Consortium structured in 5 multi-disciplinary research clusters on: "*Wetlands in East Africa: Reconciling future food production with environment protection*" University of Bonn, March 1- 3, 2015
- 2014 The Inaugural Conference IGU Commission on Geomorphology and Society, Taipei, Taiwan, International Convention Center, Shih-Liang Hall, College of Science, NTU. Presented Keynote, '*Changing Environment and Dynamics in the Central Rift Valley Lakes, Kenya*, September 9-28, 2014
- 2014 UPGro 2014 Consortium Grants Workshop: Unlocking the Potential of Groundwater for the Poor, 13th May 2014, The Cumberland Hotel, London, UK, Funded by jointly by UK's Department for International Development (DFID), Natural Environment Research Council (NERC) and the Economic and Social Research Council (ESRC)
- 2014 Workshop on: '*Enhancing academic capacity building in the Global South: DIES Proposal Writing courses for Research Projects*', 7th - 10th May, 2014, University of Cologne, Germany, Funded by the German Federal Ministry for Economic Cooperation and Development (BMZ)
- 2014 Africa Days of the Federal Ministry for Education and Research, Germany: Bioeconomy Presentation on '*Reconciling future food production with environmental protection*', Berlin, Germany 16-18 March 2014
- 2014 UPGRO Project Kickoff Meeting "*Towards Groundwater Security in Coastal Africa*", KUCC, Nairobi, Kenya 16-17 January 2014
- 2013 African Women in Science and Engineering, "*Leadership Training during the Regional Conference of the International Network of Women Engineers and Scientists (INWES)*", Kenya School of Monetary Studies, 19-21, November 2013
- 2013 Globe Project "*Wetlands in East Africa: reconciling future food production with environment protection*", Kickoff meeting in Dar es Salaam, September 6-10, 2013
- 2013 Gender Training Workshop, Association of Commonwealth Universities, International Conference of Trainers Workshop on "*Enhancing Gender Equity in the Leadership and Management of Higher Education*", Organized by ACU and University of Nairobi, Nairobi, August 26-30, 2013.
- 2013 High Level Expert Conference on Biodiversity and Climate Change: Building Climate Resilience to Enhance Adaptive Capacity for the Achievement of National Development Goals of Vision 2030 for Biodiversity Conservation, Water and Food Security in Kenya: National Museums of Kenya, Nairobi, Kenya, 18-19th July, 2013
- 2013 Vicres Workshop - Natural Resources Management Cluster, held at Mukono Hotel, Uganda, April 2013
- 2013 Workshop for the Review of Programmes of the Department of Geography at Kenyatta University Conference Centre, 14-15 February 2013

- 2013 UNITRACE Regional Conference: “*Tracer Studies in Eastern Africa: Findings and their Relevance for University Strategies and Curriculum Development*” Kenyatta University Conference Centre, Nairobi, Kenya February 11 -12, 2013
- 2013 Workshop for Norwegian Programme for Capacity Building in Higher Education and Research for Development (NORHED), Kampala, Uganda 28 January to 2 February 2013
- 2012 DIES Training Course: “*New Developments in Graduate Tracer Studies (UNITRACE Part 3)*” at the Indonesia, Bali October 18 -25, 2012
- 2012 Participation in Africa Good Governance Workshop on: *Improving Good Governance in Higher Education using Graduate Survey*, 26-27 June 2012, at Kenyatta University, Nairobi - Development of Concept for Kenya National Graduate Survey and AHERI
- 2012 Project Planning workshop to develop proposal on: *Wetlands - The Future Breadbasket of East Africa*, Bonn, Germany, 22-25, May 2012,
- 2012 Launch of the Africa Human Development Report: *Food Security for Human Development*, United Nations, Nairobi, May 15th 2012
- 2012 Participation in the 16th National Environment Council Meeting (NEC) held at Kenyatta International Conference Centre, Nairobi: Presentation of the Master Plan on Conservation and Sustainable Management of Water Catchment Areas, May 8, 2012
- 2012 National Climate Change Action Plan County Consultation Workshop for the Nairobi Province, Nairobi, Kenya 26-27 April, 2012
- 2012 Climate Change Adaptation for Africa Third Write shop on Institutional Vulnerability - Nanyuki, Kenya 19- 25 March 2012, Coordinating Chapter Eight on '*Agricultural Systems - The Institutional Policy Imperative*'
- 2012 National Stakeholders Sensitization Workshop on East Africa Climate Change Strategy and Master Plan, East Africa Community (EAC) Secretariat, Nairobi, Kenya 5 - 20 March 2012
- 2012 Climate Change Adaptation for Africa Second Write shop on Institutional Vulnerability - Addis Ababa, 23-27 January 2012,
- 2011 Climate Change Adaptation for Africa UNFCCC Conference of Parties (COP 17), Durban, South Africa, 01 -07 December, 2011, <http://www.iisd.ca/climate/cop17/dcd/html/ymbvol99num8e.html>
- 2011 Climate Change Adaptation for Africa Technical Experts Network, Progress Review Workshop, Cape Town, South Africa, 27 -30 November, 2011
- 2011 IDC - International Deans Course Africa 2011/12 Regional Workshop, Kenyatta University Conference Centre, Nairobi, 9th November 2011
- 2011 Climate Change Adaptation for Africa First Write shop on Institutional Vulnerability - Change Impacts, 31 October - 3 November, 2011 Saly Mbour, Senegal
- 2011 African Women in Agricultural Research and Development (AWARD) Mentoring Orientation Workshop, 24 - 28 October, 2011, Nairobi, Kenya
- 2011 DIES Training Course “UNIVERSITY GRADUATES’ TRACER STUDY COURSE (UNITRACE)” at the Campus of Kassel University, Germany, September 4 -17, 2011

- 2011 CCAA TEN Workshop, for Mentoring and capacity building to publish research results in key journals, July 4th to 6th 2011, Nairobi, Kenya
- 2011 Capacity Building in Integrated Watershed Management for Sustainable Natural Resource Management and Conflict Resolution in Transboundary Mountainous Ecosystems of Eastern Africa, Mbale, Mt. Elgon Uganda, 3rd to 14th April 2011
- 2011 Lake and Catchment Research Symposium (LARS2011) at Kenyatta University Conference Centre, Nairobi, Kenya, March 14 – 18, 2011

7.2. PRESENTATION OF PAPERS AT ACADEMIC AND PROFESSIONAL CONFERENCES

- Obando, J. A. '*Changing Environment and Dynamics in the Central Rift Valley Lakes, Kenya*', The Inaugural Conference IGU Commission on Geomorphology and Society, National Taiwan University, September 2014
- Onywere, S. M., Shisanya, C A. **Obando, J. A.**, Ndubi A.O., Masiga, D., Irura, Z, Mariita, N. and Maragia, H.O., *Geospatial Extent of 2011-2013 Flooding from the Eastern African Rift Valley Lakes in Kenya and its Implication on the Ecosystems*, Soda Lakes Conference, December 2013
- Obando, J. Shisanya, C., Maina, L., Kisiangani, E., Njoroge, G. and Chacha, B. 2012, *Institutionalizing Tracer Studies in Higher Education Institutions in Africa: The Experience of Kenyatta University*, International Conference, "Experiences with Link and Match in Higher Education: Results of Tracer Studies Worldwide, EXLIMA - October 22-23, 2012, Bali - Indonesia
- Obando J., Shisanya, C. and Onywere, S. 2012, *Enhancing Sustainable Water Resource Management for Food Security in Bwathonaro Catchment, Kenya*, UNESCO/DAAD-Alumni Conference "Water in Africa", Maseno University, October 1-3, 2012
- Ondieki, C. M.; Ajigoh, Elly Okewe; Obando, Joy Apiyo, 2012, A Rainfall- Runoff Model for Flood Mitigation in Nyando River Basin (Proceedings Kenya National Hydrological Society Conference, 2012)
- Obando, J. A. 2011 '*From Action Research to Policy: Experiences from Climate Change Adaptation for Africa*', Development and Climate Days, COP17, Durban, South Africa, 3-4 December 2011,
<http://www.iisd.ca/climate/cop17/dcd/html/ymbvol99num8e.html>
- Obando, J. A. 2011 '*Building Resilience and Managing Risks in Africa: Experiences from Pastoralist Communities in Northern Kenya*', Development First: Addressing Climate Change in Africa, organized by Africa Climate Policy Centre (ACPC) at UNECA, Addis Ababa, Ethiopia, 17-19 October 2011
- Kilonzo, F., Van Griensven, A., **Obando, J.** Lens, P. & Bauwens, W., 2011 "*Selecting a Potential Evapotranspiration (PET) method in the absence of essential climatic input data*" International SWAT Conference in Toledo, Spain on June 15-17, 2011.
- Kilonzo, F., **Obando, J.** & Bauwens, G.W., 2011 "*Improving model predictive capacity in poorly gauged catchments*", Lake and Catchment Research Symposium, Kenyatta University Conference Centre, Nairobi, Kenya, March 14-18, 2011

- Murimi, S.K., Prasad, H. & **Obando, J.**, 2011 “*Change detection of Mau forest cover and Lake Nakuru, using multi-temporal remote sensing data and GIS techniques*”, Lake and Catchment Research Symposium, Kenyatta University Conference Centre, Nairobi, Kenya, March 14-18, 2011
- Obando, J., H. Ogindo. W. Otieno, A., Macharia, J., Ensor, W., Tumusing, E., Kisiangani, L., Muchiri & N. Amollo 2011 “*Developing climate change scenarios for Turkana and Mandera districts of Northern Kenya*”, Lake and Catchment Research Symposium, Kenyatta University Conference Centre, Nairobi, Kenya, March 14-18, 2011
- Obando, J., H. Ogindo. W. Otieno, A Macharia, J. Ensor, W. Tumusing, E. Kisiangani, L. Muchiri & N. Amollo, 2010 “*Reducing vulnerability of Pastoralists communities to climate change and variability in Northern Kenya*”, International Conference: Climate, Sustainability and Development in Semi Arid Regions, ICID, August 16th -20th, Fortaleza, State of Ceara, Brazil
- Obando, J., H. Ogindo. W. Otieno, A Macharia, J. Ensor, W. Tumusing, E. Kisiangani, L. Muchiri & N. Amollo, 2010 “*Reducing vulnerability of Pastoralists communities to climate change and variability in Northern Kenya*”, International Conference: Climate, Sustainability and Development in Semi Arid Regions, Pre conference Event, 9th – 10th June 2010, Nairobi, Kenya
- Obando, J, H. Ogindo. W. Otieno, A Macharia, J. Ensor, W. Tumusing, E. Kisiangani, L. Muchiri & N. Amollo, 2010 “*Ecological factors contributing to vulnerability of pastoralist communities to climate change in Northern Kenya*”, *Paper presented at the Ecological Society of East Africa*, 19th – 21st May 2010, MultiMedia University, Nairobi Kenya
- Ngonzo, C., Shisanya, C. & **Obando, J.**, “*Ex-Post Hydro-Geomorphologic Impact Assessment of Degraded Farmlands at Muooni Catchment, Machakos District*”, Kenyatta University Conference May 2009, Nairobi, Kenya
- Kweyu, R., **Obando J.** & Murimi, “*Trees Outside Forests as influenced by Land Use and Socio-Economic factors in River Sio basin, Kenya*”, Kenyatta University Conference May 2009, Nairobi, Kenya
- Shisanya, C., **Obando, J.** & Onywere, S., “*Sustainable Water Resource Management for Food Security in Bwathonaro, Kenya*”, Kenyatta University Conference May 2009, Nairobi, Kenya
- Obando, J. “*Natural Resources Management in Lake Victoria Basin*” Position Paper VicRes Annual Forum, Conference theme: “*Transforming Research Results into Products: The roles of Researchers, Government and Private Sector*”. School of Monetary Studies, Nairobi, Kenya, 27-30 May, 2009
- Obando, J. “*Natural Resources Management in Lake Victoria Basin*” Position Paper VicRes Annual Forum, Arusha, Tanzania, 27-31 May, 2008
- Obando, J. “*Women and natural resources management in Sio basin of Lake Victoria, Kenya*”, Fourth biennial conference of Association of African Women Geoscientists, Cairo, Egypt 14-14 April, 2008

- Obando, J., “*Natural Resource Management Cluster Position Paper*’, Lake Victoria Research Initiative, VICRES Annual Forum May 22-25. 2007 Jinja, Uganda
- Obando, J. “*A Framework for Integrated Management of Transboundary Basins: The Case of Sio Basin in East Africa*”, Lake Abaya Research Symposium, 2007, Arba Minch Ethiopia May 7 – 11, 2007
- Obando, J. “*Integrated Natural Resources Management – Practices and Challenges*”, First Natural Resources Management Seminar, VICRES Initiative, Nairobi, Kenya, 17-19 April 2007
- Obando, J. “*Geomorphological Response to Climate Change*”: http://www.geo.fu-berlin.de/fb/elearning/geolearning/en/gr_climate_change/Climate_Change/index.html, Workshop on E-Learning for Environmental and Geosciences, January 10 to 24, 2007 in department of Earth Sciences, Free University, Berlin. (Development of webpage)
- Obando, J. “*The Role of Professional Women Earth Scientists in Kenya*”, Refresher Course on Innovative application of Remote Sensing and Geo-information Sciences for Female Professionals in the Earth Sciences, Cairo, Egypt. November 3 – 16th 2006 National Authority for Remote Sensing and Space Sciences
- Obando, J. “*Effects of Land Use Changes in Lake Victoria Transboundary River Basins on Livelihoods and Environmental Health: The Case of Mara and Sio River Basins*”, The 6th International African Association of Remote Sensing of the Environment (AARSE) Conference on Earth Observation and Geoinformation Sciences in Support of Africa’s Development, 30October – 2 November 2006, Cairo Egypt
- Obando, J. “*A review of the DAAD Alumni Summer School 2005; ‘Topics of Integrated Watershed Management*”, DAAD Alumni Summer School on Development of a Participatory Watershed Management Plan, Bwathonaro Watershed, Meru North, Kenya. July 17th – 30th, 2006.
- Obando, J. “*Towards the Integration of Disaster Management in the Geography Curriculum at Kenyatta University, Kenya*”, Refresher Course on Geoinformation for Environmental risk management in Africa: A contribution to the University Network for Disaster Risk Reduction in Africa, Presented a paper titled:, June 13th – 23rd 2006 at the Regional Centre for Mapping of Resources for Development, Nairobi, Kenya.
- Obando, J. “*Using Geoinformation for disaster risk assessment in Kenya*”. Third Biennial Conference of African Women Geoscientists, held in El Jadida Morocco, May 4th – 10th, 2006
- Obando, J. “*Resource Management in Rural Areas*”, European Water, Wastewater and Solid Waste Symposium at IFAT International Trade Fair: Linking Science and the Private Water Sector, *Water for Everyone – Dream or Reality*, Joint Forum on Developing Countries held by the DAAD and the German Association for Water, Wastewater and Waste (Deutsche Vereinigung für Wasserwirtschaft - DWA) at IFAT 2005 on Thursday, 28 April 2005, at Munich, Germany, 25-28 April <http://www.daad.de/entwicklung/en/12.1.3.html>, http://www.daad.de/de/download/entwicklung/veranstaltungen/2005_ifat/presentation_obando.pdf

- Obando, J. “*Modelling soil erosion and vegetation change*”, DAAD Alumni Summer School on Topics of Integrated Watershed Management at University of Siegen, Germany, 12 – 24 April, 2005
- Obando, J. “*Soil Erosion Hazard Assessment*”, Workshop and ITC Refresher Course on Natural Disaster Risk Reduction in Africa, Department of Geography, Makerere University, Uganda, 12- 23 September 2005
- Obando, J.A, Makalle, A. Bamutaze, Y 2005 “*Effects of Land Use Changes in Lake Victoria Transboundary River Basins on Livelihoods and Environmental Health: The Case of Mara and Sio River Basins*”, Lead Scientists Workshop, Lake Victoria Research Initiative, Arusha Tanzania August 23-26, presented proposal to peers titled; Lead Scientist in VicRes Research Project.
- Obando, J. “*Catchment Planning Modelling for Planning for land and water resources*”, Lake Abaya Research Symposium, Addis Ababa, Ethiopia, 10 –12 November 2004
- Obando, J. “*Challenges facing women in the effective application of Geographic Information Systems (GIS)*”, Second Biennial Conference of the African Women Geoscientists, 25-27 October, Kampala, Uganda
- Obando, J. “*Modelling Runoff and Sediment yield in semi-arid catchment*”, Geographisches Kolloquium, Institut für Geographische Wissenschaften, Freire Universität, Berlin, Germany, 20 May 2003
- Obando, J. “*Technological disparities affecting the use of Geographical Information Systems (GIS) in third world countries*”, International Conference of the Kenya Chapter of Association of Third World Studies, 17th – 19th September, 2003, Nairobi Kenya,

7.3. CONVENING AND COORDINATING CONFERENCES/ SEMINARS

- 2019: Building Research Management Capacity in BRECCIA Partner Institutions, SARIMA Consultation and Planning Workshop, 20-21 March 2019, Nairobi, Kenya, Virtual workshop
- 2019: Stakeholders Engagement Workshop on ‘Building Research Capacity for Sustainable Water and Food security in Sub-Saharan Africa (BRECCIA) Project, 17th January 2019, Machakos, Kenya
- 2016: Seminar in honour of Professor Celia Nyamweru, ‘*Millennial Global Transformation: From the Physical to the Anthropocene. Essays in honour of Prof Celia Nyamweru*’ December 19th 2016, Kenyatta University. Organized in conjunction with Institute of Development Studies, University of Nairobi, Dr. Njeri Kinyanjui
- 2014: Conference to celebrate the 40th Anniversary of DAAD Regional Office for Africa in Nairobi, Kenya: ‘*How to Equip a Leader- Higher Education Co-operation between Eastern Africa, Germany: Encouraging Leadership, Opening Access, Extending Partnership*’, May 28th to 30th, 2014, Safari Park Hotel, Nairobi, Kenya - Organized by DAAD, IUCEA and KDSA

- 2013: Scientific Research Paper Writing Workshop, Main Facilitator (organized by the Kenya DAAD Scholars Association and German Academic Exchange Service (DAAD), 24-27 July 2013 Kenyatta University, Nairobi Kenya
- 2013: Committee Member, Local Organizing Committee for Kenya DAAD Scholars Association - African Cities of the Future: Smart, Sustainable, Participatory, 30th – 31st May 2013 at the Safari Park Hotel, Nairobi
- 2011: Committee Member, Local Organizing Committee, KDSA/DAAD Conference, 'Capacity Development for the County Governments in the New Constitutional Dispensation in Kenya', Wednesday, 16th November 2011, Nairobi, Kenya (organized by the Kenya DAAD Scholars Association and German Academic Exchange Service (DAAD)
- 2011: Secretary, Local Organizing Committee for the Lake and Catchment Research Symposium on: "Water, Sanitation and Energy For Sustainable Livelihoods", Hosted by Geography Department at Kenyatta University Conference Centre, from 14th – 18th March, 2011

8.0. RESEARCH AND PUBLICATIONS

8.1. REFEREED PUBLICATIONS

- Mutua, S., Ghysels, G., Anibas, C., **Obando, J.**, Verbeiren, B., Van Griensven, A., Vaessens, A & Huysmans, M. (2020). Understanding and conceptualization of the hydrogeology and groundwater flow dynamics of the Nyando River Basin in Western Kenya. *Journal of Hydrology: Regional Studies*, 32, 100766, <https://www.sciencedirect.com/science/article/pii/S2214581820302408>
- Muiruri, Philip Gathogo, **Joy A. Obando**, and Ishmail O. Mahiri. "Journal of Environmental & Earth Sciences." *Journal of Environmental & Earth Sciences* 65 (2020): 65881289. <https://ojs.bilpublishing.com/index.php/jees>
- Kathuri, N.J, Kisovi, L.M and **Obando, J.A.** 2020, Socio-economic determinants of food insecurity at household level in Makueni County, Kenya, *International Journal of Scientific and Research Publications*, Volume 10, Issue 7, July 2020, DOI: 10.29322/IJSRP.10.07.2020.p10310, <http://dx.doi.org/10.29322/IJSRP.10.07.2020.p10310>
- James N. Kathuri, **Joy A. Obando** and Leonard M. Kisovi, 2020, Household Coping and Adaptive Strategies Undertaken by Households to Enhance Food Security in Makueni County, Kenya, *International Journal of Humanities and Social Studies: Volume 8, Issue 6, June 2020* [10.24940/thejihss/2020/v8/i6/HS2006-066, http://www.internationaljournalcorner.com/index.php/thejihss/article/view/153599](https://www.internationaljournalcorner.com/index.php/thejihss/article/view/153599)
- Gabiri, G., Diekkrüger, B., Näschen, K., Leemhuis, C., Linden, R. V. D., Majaliwa, J. G. M., & **Obando, J. A.** (2020). Impact of Climate and Land Use/Land Cover Change on the Water Resources of a Tropical Inland Valley Catchment in Uganda, East Africa. *Climate*, 8(7), 83. <https://www.mdpi.com/2225-1154/8/7/83>

- Balfour, N., **Obando, J.**, & Gohil, D. (2020). Dimensions of water insecurity in pastoralist households in Kenya. *Waterlines*, 39(1), 24-43. <https://www.sciencegate.app/doi/abs/10.3362/1756-3488.19-00016>
- King-Okumu, C., Jaafar, H., Aboukheira, A. A. S., Benzaied, M., **Obando, J.**, & Hannachi, A. (2019). Tracing the trade-offs at the energy-water-environment nexus in drought-prone urbanising regions. *Arabian Journal of Geosciences*, 12(20), 639. <http://nora.nerc.ac.uk/id/eprint/525905/>
- Muchanga, M., Sichingabula, H. M., **Obando, J.**, Chomba, I., Sikazwe, H., & Chisola, M. (2019) Bathymetry of the Makoye Reservoir and its Implications on Water Security for Livestock within the Catchment, *International Journal of Geography and Geology*, 2019 Vol. 8, No. 3, pp. 93-109 DOI: 10.18488/journal.10.2019.83.93.109, <http://www.conscientiabeam.com/journal/10/abstract/5669>
- Makokha, M., **Obando, J.** and Omweri, Z. 2019, Demographic Rise effect on water supply systems in Urban Higher Learning Institutions: Case Study of Kenyatta University, *Sriwijaya Journal of Environment*, <http://dx.doi.org/10.22135/sje.2019.4.2.85-96>
- Gafna, D. J., Dolos, K., Mahiri, I. O., Mahiri, J. G., & **Obando, J. A.** (2017). Diversity of Medicinal Plants and Anthropogenic Threats in the Samburu Central Sub-County of Kenya. *African Journal of Traditional, Complementary and Alternative medicines (AJTCAM)*, 14(5), 72-79.
- Shisanya, C., Onywere, S. and **Obando, J.** (2017) Water Resources Management for Food Security in Kenya: Case of Bwathonaro Catchment. *Open Access Library Journal*, 4, 1-16. doi: [10.4236/oalib.1103524](https://doi.org/10.4236/oalib.1103524).
- Luwesi, C. N., **Obando, J. A.**, & Shisanya, C. A. (2017). The Impact of a Warming Micro Climate on Muooni Farmers of Kenya. *Agriculture*, 7(3), 20.
- Sonwa, D.J., Dieye, A., El Mzouri, E.H., Majule, A., Mugabe, F.T., Omolo, N., Wouapi, H., **Obando, J.** and Brooks, N., (2016). Drivers of climate risk in African agriculture. *Climate and Development*, pp.1-16.
- Comte, J-C, Cassidy, R., **Obando, J.**, Robins, N., Ibrahim, K., Melchioly, S., Mjemah, I., Shauri, H., Bourhane, A., Mohamed, I., Makokha, M., Noe, C., Mwega, B., Join, J-L, Banton, O. & Davies, J. (2016). 'Challenges in groundwater resource management in coastal aquifers of East Africa: Investigations and lessons learnt in the Comoros Islands, Kenya and Tanzania'. *Journal of Hydrology: Regional Studies*. DOI: 10.1016/J.EJRH.2015.12.065
- Waithaka, A., Kisovi, L. M., & **Obando, J.** (2016). The impact of community participation in rural water management in Ndarugu-Thiririka sub-catchment, Athi Basin, Kenya. *Ethiopian Journal of Environmental Studies and Management*, 9(2), 245-254.
- Obando, J. A., Luwesi, C.N., Mathenge, J. M., Kinuthia, W., Wambua, P.P., Mutiso, M.N., and Bader E.O., 2015, Performance Assessment and Evaluation of Community Participation in Water Sector Governance: The Case of Ngaciuma-Kinyaritha catchment, Mount Kenya Region, in Beyene A. (Ed) *Agricultural Water Institutions in East Africa, Current African Issues* 63, Nordiska Afrikainstitutet, Uppsala 2015

- Muthee, M. Waswa, F. and **Obando, J.** (2015), Emerging Land Use Changes-Climatic Variability Nexus in Meru County, *Journal of Environment and Earth Sciences*, ISSN 2224-3216 (Paper), ISSN 2225-0948 (Online) Vol. 5, No 20, 2015
- Muthee, M., **Obando, J.** and Waswa, F. (2015). Perceptions and Truism of Climate Variability within Smallholder Farming Communities in Meru County, Kenya, *Journal of Scientific Research and Reports*, 9 (1): 1-12; Article no. JSRR. 20239, ISSN: 2320-1227
- Gabiri, G. **Obando, J.A.**, Tenywa, M. M., Majaliwa, J.G., Kizza, C.L., Zizinga, A. and Buruchara, R. (2015). Soil and Nutrient Losses under cultivated bush and climbing beans on Terraces Humid Highland Slopes of southwestern Uganda, *Journal of Scientific Research & Reports*, 8 (3), 1-16, Article no. JSRR. 18113, ISSN 2320-0228
- Mapfumo, P., Onyango, M, Honkponou, S., El Mzourid, E.H., Githeko, A., Rabeharisoa, L., **Obando, J.**, Omolo, N., Majule, A., Denton, F., Ayers, J. & Agrawal, A. (2015), Pathways to transformational change in the face of climate impacts: an analytical framework, *Climate and Development*, <http://www.tandfonline.com/loi/tcld20>
- Opiyo, F. Wasonga, O.V., Nyangito, M.M., Mureithi, S. M., **Obando, J.** and Munang, R. (2015), Determinants of perception of Climate Change and adaptation among Turkana pastoralists in north-western Kenya, *Climate and Development*, <http://dx.doi.org/10.1080/17565529.2015.1034231>
- Ontumbi G, **Obando, J.** and Ondieki, C. (2015), The Influence of Agricultural Activities on the Water Quality of the River Sosiani in Uasin Gishu County, Kenya, *International Journal of Research in Agricultural Sciences*, Vol. 2. Issue 1, ISSN (Online) 2348-3997
- Ngonzo, L.C, Shisanya, C. A. and **Obando, J.** (2015) Optimization of crop water requirements under fluctuating rainfall regimes in a semi-arid catchment area: evidence from Muooni dam site, Machakos district, Kenya,
- Shisanya, C.A., Luwesi, C.N., **Obando, J.A.** (2014), Innovative but Not Feasible: Green Water Saving Schemes at the Crossroad in Semi-Arid Lands Innovative Water Resource Use and Management for Poverty Reduction in Sub-Saharan Africa: An Anthology (OSSREA), pp. 137-172, ISBN: 978-99944-55-75-1
- Akombo, R. A., Luwesi, C. N., Shisanya, C. A. and **Obando, J.A.** (2014) Green Water Credits for Sustainable Agriculture and Forestry in Arid and Semi-Arid Tropics of Kenya, *Journal of Agri-food and Applied Sciences*, Vol. 2(4), pp86-92, 30 April 2014, E-ISSN:2311-6730
- Draphor, S. **Obando, J. A.** and Obiero, K., (2014) Demographic Characteristics of House Ownership Status Influence on Water Demand in Ruiru Municipality, Kiambu County, Kenya, *Middle-East Journal of Scientific Research* 19 (60): 858-868, ISSN 1990-9233 DOI: 10.5829/idosi.mejsr.2014.19.6.11592
- Ngonzo, C. L. Shisanya, C. A and **Obando, J.A** (2013) Hydro-Geomorphologic Impact Assessment and Economic Viability of Smallholder Farms In Muooni Catchment, Machakos District. *Journal of Agri-Food and Applied Sciences (JAAS)*-Vol. 1 (1): 16-23

- Ngonzo, C. L. Shisanya, C. A and **Obando, J.A** (2013) Climate Change, Excess Land–Uses and Farmers’ Water Demand: An Induction from Smallholder Farms of Muooni Dam Site, Kenya. *Journal of Agri-Food and Applied Sciences (JAAS)* Vol. 1 (2):24-36
- Ngonzo, C. L. Shisanya, C. A and **Obando, J.A** (2013) Applied Inventory Models for Evaluating Water and Food Security: Approaches and Lessons from Smallholder Farms of Muooni Catchment, Machakos District, Kenya. *Journal of Agri-Food and Applied Sciences (JAAS)-* Vol. 1 (2):37 -45
- Ngonzo, C. L. Shisanya, C. A and **Obando, J.A** (2013) Hydro-economic inventory for sustainable livelihood in Kenyan ASALs: The case of Muooni Catchment. *Journal of Agri-Food and Applied Sciences (JAAS)-* Vol. 1 (2):46 -55
- Ngonzo, C. L. Shisanya, C. A and **Obando, J.A** (2013). Hydro-Economic Inventory Models for Planning and Evaluation of Farming Water Efficiency in a Semi-Arid Watershed of Kenya. *Journal of Agri-Food and Applied Sciences (JAAS)-* Vol. 1 (2): 56-62
- Kilonzo, F., Masese, O., Van Griensven, A., Bauwens, W., **Obando, J.** and Lens, P.N.L. 2013. Spatial-temporal variability in water quality and macro invertebrate assemblages in the upper Mara river basin, Kenya, *Physics and Chemistry of the Earth Parts A/B/C* Available online 26 October 2013
- Ouma, C., **Obando, J.** and Koech, M. (2012) Post Drought recovery strategies among the Turkana pastoralists in Northern Kenya, *Scholarly Journals of Biotechnology*, Vol. 1(5), pp. 90-100, ISSN 2315-6171 (<http://www.scholarly-journals.com>,SJB)
- Alufah, S. Shisanya, C. A. and **Obando, J. A.** (2012) Analysis of Factors Influencing Adoption of Soil and Water Conservation Technologies in Ngaciuma Sub-Catchments, Kenya, *African Journal of Basic and Applied Sciences* 4 (5); 172-185, 2012, ISSN 2079-2034, DOI: 10.5829/idosi.ajbas.2012.4.5.1112
- Alufah, S. **Obando, J.A.** and Shisanya, C.A. 2012 An evaluation of Soil and Water Conservation Technologies for Sustainable Management of Ngaciuma Sub-Catchment, Kenya, *CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings* pp1-14, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Kilonzo, F. **Obando, J.** and Bauwens, G.W. 2012 Improving SWAT model performance in poorly gauged catchments, *CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings*, pp77-91, (ISSN 1868-8578) <http://www.uni-siegen.de/zew/publikationen/index.html>
- Kweyu, R. Murimi, S. and **Obando, J.** 2012 The Influence of Socio-Economic Factors on Trees Outside Forests in the Sio River Basin, Kenya, *CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings*, pp95-104, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Luwesi, C.N., **Obando, J.A.** and Shisanya, C. 2012 Hydro-economic Inventory for Sustainable Livelihood in Kenyan ASALs: The case of Muooni Dam, *CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings* pp105-122, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Murimi, S.K., **Obando, J.** and Prasad, H. 2012 Detection of Mau Forest Cover and Lake Nakuru, using Multi-Temporal Remote Sensing and GIS, *CICD Series Vol.9 LARS 2011*

- Lake and Catchment Research Symposium Proceedings, pp 161-177, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Barasa, B. , Majaliwa, J. G. M. , Lwasa, S. , **Obando, J.** and Bamutaze, Y.(2011) 'Magnitude and transition potential of land-use/cover changes in the trans-boundary river Sio catchment using remote sensing and GIS', *Annals of GIS*, 17: 1, 73 — 80
- Neykova, N., **Obando, J.**, Schneider, R., Shisanya, C., Thiele,-Bruhn, S. and Thomas, F. 2011, Vertical Rooting patterns of single crop and intercropping agricultural systems in central Kenya, *Journal of Plant Nutrition and Soil Science*, jpln.201000314.R1, <http://onlinelibrary.wiley.com/doi/10.1002/jpln.201000314/abstract>
- Barasa, B., Majaliwa. M.G., Lwasa, S., **Obando, J.** and Bamutaze, Y. 2010. Estimation of aboveground biomass in the trans-boundary River Sio Sub-catchment in Uganda, *J. Appl. Sci. Env. Management*. June 2010, Vol. 14 (2) 87-90,www.bioline.org.br/ja
- Barasa, B., Majaliwa. M.G., Lwasa, S., **Obando, J.** and Bamutaze, Y. 2010. Effects of Land Use/ Cover Change on the Soil Properties in River Sio Catchment, *Journal of International Application and Science*, Vol. 5: 391-396
- Bamutaze, Y., Tenywa, M.M, Majaliwa, M.J.G, Vanacker, V., Bagoora, F., Magunda, M., **Obando, J.** and Ejiet Wasige, J.E. 2009 “Infiltration characteristics of volcanic sloping soils on Mt. Elgon, Eastern Uganda”, *Catena* 80:122-130
- Obando, J.A. 2008, “Reflections on Challenges and Prospects of Geographical Research for Development of Africa”. *Chemichemi, International Journal of School of Humanities and Social Sciences* 5(1): 136-146
- Makalle, M.P., **Obando, J.** And Bamutaze, Y. 2008, “Effects of Land use practices on livelihoods in the transboundary catchments of the Lake Victoria Basin”, *African Journal of Environmental Science and Technology*, 2(10):309-317 <http://www.academicjournals.org/ajest/PDF/pdf%202008/Oct/Albinus%20et%20al.pdf>
- Obando, J. A. 2005 "Modelling Soil Erosion and Vegetation Change" FWU Water Resources Publications, Volume No: 03 / 2005, ISSN No. 1613-1045, /fb10/fwu/ww/publikationen / volume0305, DAAD Alumni Summer School 2005 - Topics of Integrated Watershed Management, Proceedings, <http://WaterResourcesPublications.uni-siegen.de>
- Obando, J. A. 2004 "Catchment Modelling for Planning Use of Land and Water Resources in Semi Arid Areas" FWU Water Resources Publications, Volume No: 04 / 2005, ISSN No. 1613-1045, Lake Abaya Research Symposium 2004 - Catchment and Lake Research, Proceedings /fb10/fwu/ww/publikationen/volume 0405, <http://WaterResourcesPublications.uni-siegen.de>
-

8.2. PAPERS IN CONFERENCE PROCEEDINGS

- Alufah, S. **Obando, J.A.** and Shisanya, C.A. 2012 An evaluation of Soil and Water Conservation Technologies for Sustainable Management of Ngaciuma Sub-Catchment, Kenya, *CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings* pp1-14, <http://www.uni-siegen.de/zew/publikationen/index.html>

- Kilonzo, F. **Obando, J.** and Bauwens, G.W. 2012 Improving SWAT model performance in poorly gauged catchments, CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings, pp77-91, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Kweyu, R. Murimi, S. and **Obando, J.** 2012 The Influence of Socio-Economic Factors on Trees Outside Forests in the Sio River Basin, Kenya, CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings, pp95-104, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Luwesi, C.N., **Obando, J.A.** and Shisanya, C. 2012 Hydro-economic Inventory for Sustainable Livelihood in Kenyan ASALs: The case of Muooni Dam, CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings pp105-122, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Murimi, S.K., **Obando, J.** and Prasad, H. 2012 Detection of Mau Forest Cover and Lake Nakuru, using Multi-Temporal Remote Sensing and GIS, CICD Series Vol.9 LARS 2011 Lake and Catchment Research Symposium Proceedings, pp 161-177, <http://www.uni-siegen.de/zew/publikationen/index.html>
- Obando, J, H. Ogindo. W. Otieno, A Macharia, J. Ensor, W. Tumusing, E. Kisiangani, L. Muchiri and N. Amollo, 2011 *Ecological Factors Contributing to Vulnerability of Pastoralist Communities to Climate Change in Northern Kenya* pp75-90, in Oguge, N.O., E. Omolo, and C. Lumosi, eds. 2011. *Climate Change and Natural Resource use in Eastern Africa: Impacts, Adaptation and Mitigation*. Proceedings of the 3rd Scientific Conference of the Ecological Society for Eastern Africa; Ecological Society for Eastern Africa, Regal Press, Nairobi, Kenya, 421 pp.
- Ngonzo, C., Shisanya, C. and **Obando, J.** (2009) *Ex-Post Hydro-Geomorphologic Impact Assessment of Degraded Farmlands at Muooni Catchment, Machakos District*, Proceedings of Kenyatta University Conference
- Kweyu, R., **Obando J.** and Murimi, S. (2009) *Trees Outside Forests as influenced by Land Use and Socio-Economic factors in River Sio basin, Kenya* Kenyatta University Conference Proceedings
- Shisanya, C. **Obando, J.** and Onywere, S. (2009) *Sustainable Water Resource Management for Food Security in Bwathonaro, Kenya*. Proceedings of Kenyatta University Conference
- Bamutaze, Y., **Obando, J.**, Makalle, A., 2008. Integrating Geospatial techniques in the assessment of land use change impacts on the environment and livelihoods in the Sio Sub-catchment of the Lake Victoria Basin. AARSE Conference Proceedings
- Obando, J., Shisanya, C. and Makokha, L. (2008) (Eds.) *Workshop on Curriculum Development: Masters in Integrated Watershed Management*, Bagamoyo 18-23 February 2008 Proceedings
- Obando, J. 2007 'A Framework for Integrated Management of Transboundary Basins: The Case of Sio Basin in East Africa, May 7 – 11, 2007 Lake Abaya Research Symposium
- Obando, J. "Effects of Land Use Changes in Lake Victoria Transboundary River Basins on Livelihoods and Environmental Health: The Case of Mara and Sio River Basins", The

6th International African Association of Remote Sensing of the Environment (AARSE) Conference on Earth Observation and Geoinformation Sciences in Support of Africa's Development, 30 October – 2 November 2006, Cairo Egypt

Obando, J. “A review of the DAAD Alumni Summer School 2005; ‘Topics of Integrated Watershed Management’”, DAAD Alumni Summer School on Development of a Participatory Watershed Management Plan, Bwathonaro Watershed, Meru North, Kenya. July 17th – 30th, 2006.

8.3. WORKING PAPERS

Adjei-Nsiah, S. Dieye, A.M., El Mzouri, E. Gueye, C., Habtamu, A.A., Hounkponou, S. Khattabi, A. Mahoo, H., Majule, A. E., Mapfumo, P., **Obando, J.**, Ouma, G.O., Rabeharisoa, L., Rananivonasy, J., Sonwa, D.J. 2015, CARIAA Working Paper No. 2. Collaborative Adaptation Research Initiative in Africa and Asia. *Institutions and Adaptation: Lessons Learned from the Climate Change Adaptation in Africa Program*, ISSN: 2292-6798. Available online at: www.idrc.ca/cariaa

Global Water Partnership GWP 2015, *Integrated Water Resources Management in Eastern Africa: Coping with 'complex' hydrology*. Technical Focus Paper ISSN 2001-4023, Available online from www.gwp.org -Authors and contributors: Gerd Foerch, Moses Tenywa, Alex Zizinga, Cush Luwesi, Abebe Mekuriaw, Omar Munyaneza, Nele Foerch, **Joy Obando**, Callist Tindimugya, Patrick Safari, Abel Omanga, Danka Thalmeinoerova and James Kenge Gunya

9.0. BOOKS

Bangura, A. K., **Obando, J. A.**, Munene, I. I., & Shisanya, C. 2019, *Conducting Research and Mentoring Students in Africa*, <https://www.codesria.org/spip.php?rubrique65>

Luwesi, C.N., Shisanya, C. A. and **Obando, J.A.** 2012. Warming and Greening: The Dilemma Facing Green Water Economy under Changing Micro-Climatic Conditions in Muooni Catchment (Machakos, Kenya) (ISBN: 978-3-8484-8562-8) Lambert Academic Publishing (LAP) Pp305

10.0. CHAPTERS IN BOOKS

Asokan S.M., **Obando J.**, Kwena B.F., Luwesi C.N. (2020) Climate Change Adaptation through Sustainable Water Resources Management in Kenya: Challenges and Opportunities. In: Leal Filho W., Ogugu N., Adelake L., Ayal D., da Silva I. (eds) *African Handbook of Climate Change Adaptation*. Springer, Cham, <http://nai.diva-portal.org/smash/record.jsf?pid=diva2%3A1453347&dswid=-8575>

Obando; J.A, Luwesi, C.N; Beyene, A; Tshimanga, R.M; & Ruhakana, A. 2018, Chapter 4: Legal And Market Requirements For Water Finance In Africa: The Case Of The Kenya Water Sector Reforms In Atakilte Beyene and Cush Ngongzo Luwesi (Eds) *Innovative Water Finance In Africa A Guide For Water Managers Volume 1 Financial Innovations In Context*, Pp 60-81 The Nordic Africa Institute Uppsala

- Obando, J. A., Luwesi, C. N., Förch, N., Opiyo, A. O., Shisanya, C., & Förch, G. (2018). Kenya Success Story in Water Resources Management: Participatory Capacity Building in. *Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands*, 185.
- Khatib, M., Obando, J., & Murimi, S. (2018). Effects of Irrigation Management Practices on Water Allocation Among Farmers in Kiladeda Sub-Catchment, Tanzania. *Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands*, 70
- Obando J.A., Onywere, S.M., Shisanya, C.A, Ndubi, A.O., Masiga, D., Irura, Z.N., Mariita,, N. and H. O. Maragia, H.O. (2016), Impact of short-term flooding on livelihoods in the Central Kenya Rift Valley Lakes; Chapter *Geomorphology and Society*, Editors E. Meadows, Michael and Lin Jiun-Chuan Series - Advances in Geographical and Environmental Sciences, eBook ISBN 978-4-431-56000-5, Available at: <http://www.springer.com/us/book/9784431559986>, Springer Japan
- Chris Allan Shisanya, Cush Ngonzo Luwesi, **Joy Apiyo Obando** (2014). “Innovative but Not Feasible: Green Water Saving Schemes at the Crossroad in Semi-Arid Lands”. In: OSSREA (eds.), *Innovative Water Resource Use and Management for Poverty Reduction in Sub-Saharan Africa: An Anthology* (ISBN: 978-99944-55-75-1), Addis Ababa, Ethiopia, pp. 137-172
- Luwesi, C. N, Shisanya, C. A. and **Obando**, J.A. 2011 "*Toward a Hydro-Economic Approach for Risk Assessment and Mitigation Planning of Water Disasters in Semi Arid Kenya*" ISBN 978-953-307-313-2, Chapter 2 in Matteo Davino (Ed), *Risk Management in Environment, Production and Economy* <http://www.intechopen.com/articles/show/title/toward-a-hydro-economic-approach-for-risk-assessment-and-mitigation-planning-of-water-disasters-in-s>
- Cush L. Ngonzo, Chris A. Shisanya and **Joy A. Obando**, 2010 “*Land use and water demand under a changing climate: Experiences of smallholder farmers from Muooni dam site, Kenya*” Chapter 7 in Siddhartha P. Saikia, International Book Distributors,2010,xii, 460 p, ISBN: 81-7089-370-4, <http://www.vedamsbooks.com/no93101/climate-change-siddhartha-p-saikia>
- Obando, J. A. 2005: “*A Catchment model for runoff and sediment yield*”, Chapter 14 in Jansky, L., Haigh, M.J. and Prasad, H. *Sustainable Management of Headwater Resources: Research from Africa and Asia*, September 2005
- Batterbury, S.P.J., Behnke, R. H., Doll, P. M., Ellis, J.E., Harou, P. A., Lynam, T.J.P, Mtimet, A., Nicholson, S.E., **Obando**, J.A. and Thornes, J.B., 2003: “*Responding to Desertification at the National Scale: Detection, Explanation and Responses*”, Chapter 19 in Reynolds, J.F., and D.M. Stafford Smith (eds). “*Global Desertification: Do Humans Cause Deserts?*” Dahlem Workshop Series, Dahlem University Press, Berlin
- Obando, J. A. 2002: “*The Impact of Land Abandonment on Regeneration of Semi-natural Vegetation: A Case Study from the Guadalentin*” Part 2: Regional Studies Chapter 19, in Geeson, N.A. Brandt, J, and Thornes, J. B. (Eds.). *Mediterranean Desertification: A Mosaic of Processes and Responses. MEDALUS II*. John Wiley and Sons, Ltd
-

11.0. NETWORKING AND COLLABORATION WITH EXTERNAL ORGANIZATIONS

- (a) Established the linkage between the University Network for Disaster Risk Reduction in Africa (UNEDRA) and Kenyatta University - Concerning Capacity Building and Research in Disaster Risk Reduction In Africa (from July 2006) With the following long-term objectives:
- To increase the capacity of government organizations in Africa responsible for hazard and risk assessment, and make them less dependent on foreign disaster response
 - To increase the awareness and capacity of municipal authorities in the field of risk management
 - To secure new – and to strengthen existing networks of Universities that will provide young professional with adequate training in the field of disaster risk reduction, aiming at a successful completion of these longer-term objectives
- (b) Development of Integrated Watershed Management Masters Programme with partners and stakeholders in Germany, Ethiopia, Tanzania, Uganda and Kenya with support from German Academic Exchange Service from 2005. Established linkages with partners within the framework Capacity Building for Integrated Watershed Management (IWMNet) (www.iwmnet.eu) through EU Water Facility from 2007
- (c) Contribution and participation in the establishment of the water network (GAWN – German Alumni Water Network) which evolved in 2005
- (d) Involved in the development of partnerships within the framework of University Capacity Development for Integrated Sanitation Development in Eastern and Southern Africa (UCDISM) (www.ucdism.eu) through the Edulink from 2007
- (e) Involved in Development of Certificate in Geoinformatics syllabus for The Kenya Polytechnic, July 2005
- (f) Convening and collaborating with scientists in 17 projects in the Natural Resources Management Cluster of Lake Victoria Research Initiative as Cluster Leader from 2007 to 2010

12.0. RESEARCH GRANTS AWARDED

- 2020: Nordiska Afrikainstitutet (Nordic Africa Institute), Research Grants Open Call 2020 (Development Research), Network Grant, *'From Climate Change Adaptation to Climate Resilience – Identifying the missing links'*, **Participating Researcher**, 2021 – 2022, Project Amount SEK 442,814, with University of Dar es Salaam
- 2019: BRECCIA Small Research Project *'Evaluation of land use change on water and food security in Lagha Bor Catchment, Wajir County, Kenya*, February 2018 – March 2019 **Principal Investigator**
- 2018-2022: Global Challenges Research Fund (GCRF): *'Sustainable water and food security in drylands of sub-Saharan Africa'* Team led by Professor Justin Sheffield of University of Southampton with KU partner, funding by Research Councils UK
- 2016: Vice-Chancellors Grant. Kenyatta University "Assessment of Hydrogeology and Geochemistry of the Groundwater systems in Kenyatta University and Emerging

- surrounding settlements, Principal Investigator Dr. Mary Makokha, **Co-Principal, Prof. Joy Obando**, March 2016 to February 2017.
- 2013: UPGRO (Unlocking Potential for Ground Water for the Poor) 2012 Catalyst Grant: "Towards groundwater security for Africa", Funding by National Environment Research Council, UK **Prof. Joy Obando, Principal Investigator** Partners: Pwani University, University of Comoros, University of Dar es Salaam, Sokoine University of Agriculture, Queens University Belfast, University of Reunion, University of Avignon, UK Grant award of GBP 74,889, for 29 July 2013 to 28 July 2014
- 2013: GLOBE Project - Integrative German-African Project Consortium structured in 5 multi-disciplinary research clusters on: "Wetlands in East Africa: Reconciling future food production with environment protection", Funded by German Ministry of Research and Education (BMBF) for 5 years, September 2013 - August 2018, Prof. Dr. Mathias Becker, Speaker and Project Leader, University of Bonn, Managing Institution for the Project. National Museums of Kenya Lead Institution for Kenya, **KU Partner Joy Obando**
- 2012: Commission for University Education (CUE) Contract for the Supply of Contracting Service: Tracer Studies in Business Studies: Ref: Tender CHE/01/2012-2013, **Deputy Principal Investigator, Joy Obando**, Principal Investigator - Prof. Chris Shisanya, Team members: Dr. Gitau Njoroge, Ms. Terry Njoroge, Ms. Bhoke Chacha, Mr. John Maraigua
- 2012: NCST 5th Call for Research: Funded Projects 2012/2013 (Theme: Health, Water, & Sanitation; Award Letter Ref; NCST/RCD/ST/ST&I/R/5th Call/R/137, KShs 6,000,000 'Understanding the environment, promoting health in Baringo/Bogoria Drainage Basin, Kenya': Prof. Simon Onywere (KU)(PI), **Prof. Joy Obando** (KU), Prof. Chris Shisanya (KU), Dr. Dan Masiga (ICIPE), Dr. Nicholas Mariita (Kengen), Mr. Zephania Irura (MOPHS) and Mr. Maragia (MEMR)
- 2010: Community Excellence for Research in Neglected Vector Borne and Zoonotic Diseases (CERNVEC) Project funded by the Consortium for National Health Research (CNHR) **KU Team member**, collaboration with ICIPE, JKUAT, MoPHS and KEMRI (USD 694,000) (www.cernvec.org), 2010 - 2013
- 2010: Won a Service Tender No. OOP/SP/148/2009-2010 – Undertaking a Risk Hazard, Vulnerability and Capacity Assessment/Mapping from Ministry of State for Special Programmes; 27th September 2010 - 2013 KShs 3,244,150, Dr. Simon Onywere (Leader), **Dr. Joy Obando** and Mr. Anthony Ndubi
- 2009: Won a Service Tender Ref: IGAD/REFORM/DRM/01(01) - IGAD Food Security and Risk Management Programme: *Regional Disaster Risk Management Research Capacity for IGAD Member States: Republic of Djibouti, The Sudan, Ethiopia, Uganda and Kenya* Intergovernmental Authority on Development (IGAD), Prof. Shisanya (Lead Expert), **Dr. Obando** (Geography), Dr. Kamau (Environmental Planning and Management) January 17th to April 11th 2010: EUR 24500, Kenyatta University Contracting Partner

- 2009: Commission for Higher Education, Commission for Higher Education (CHE) Enhancing Sustainable Water Resource Management for Food Security: *A Case Study of Bwathonaro Catchment, Kenya* - Collaborators Prof. Shisanya (Principal Investigator), Co-researchers: Dr. Onywere and **Dr. Obando** (Kenyatta University), Period: October 2008 – September 2011 (KShs 3million), Kenyatta University Contracting Partner
- 2009: *University Capacity Development for Integrated Sanitation Development in Eastern and Southern Africa* (9ACP RPR 8#10) Coordinated by University of Siegen (Centre for Capacity Development), with partners from Geography Department Kenyatta, University of Dar es Salaam, Tanzania, Makerere University Uganda and University of Zambia, Lusaka, Zambia, Period: October 2009 to September 2011, European Union - EUR 787000, Centre for International Capacity Development Contracting Partner
- 2008: International Development Research Centre (IDRC)funded project on: *Enhancing Adaptive Capacity of Pastoralist Communities to Climate Change induced vulnerabilities: Case studies of Turkana and Mandera Districts in Kenya*, Practical Action (Mr. Willie Tumusing, Dr. Jonathan Ensor, Mr. Eric Kisiangani and Lydia Muchiri) the Implementing partner with two Researchers from Kenyatta University (Dr. Godfrey Olukoye and **Dr. Obando**), other partners are National Environmental Management Authority (Dr. Ayub Macharia) Maseno University (Prof. Wellington Otieno and Dr. Harun Ogindo) and Foodlink Resources (Nancy Omolo): Period January 2008 – April 2010 (CAD 20 million), Practical Action Contracting Partner
- 2007: *Capacity Building for Integrated Watershed Management in Eastern Africa* (IWMNET) www.iwmnet.eu Coordinated by the Water Resources Management Group, Research Institute for Water and Environment, Siegen University, Germany with partners from Geography Department, Kenyatta University, University of Dar es Salaam, Tanzania, Makerere University, Uganda, Arba Minch University, Ethiopia, International Water Management Institute (IWMI), Addis Ababa, Ethiopia, GTZ –Water Sector Reform Programme, Kenya and GTZ Water Sector Reform Programme Tanzania(9 ACP RPR 50/11) 9th European Development Fund (EDF), ACP-EU Water Facility, Period: October 2007 to September 2011EUR 2.5million, Centre for International Capacity Development Contracting Partner
- 2006: Lake Victoria Research Initiative (VICRES) Research Grant Under the Inter University Council for Eastern Africa (IUCEA) with Swedish International Aid Agency (SIDA) for research on *Effects of Land Use Changes in Lake Victoria Transboundary River Basins on Livelihoods and Environmental Health: The Case of Mara and Sio River Basins*, Lead Scientist – **Dr. Joy Obando**, Co-Researchers Dr. Albinus Makalle (Ardhi University, Tanzania) and Mr. Yazidhi Bamutaze (Makerere University) Period: November 2006 to March 2010 (USD 94,496) – Kenyatta University Contracting Partner

13.0. NATIONAL AND INTERNATIONAL RECOGNITION

13.1. NATIONAL

- a) Appointed to Taskforce to Develop a **Master Plan for Conservation and Management of Water Catchment Areas in Kenya**, Gazette notice No7730 signed by Minister for Environment and Mineral Resources, Nairobi, Kenya, 2nd July 2010, Deputy Chair, **Extension of Taskforce on April 8th 2011, Extended to August 2011**
- b) **Selected Co-Chair of the Taskforce** - Coordinating the Technical Writing Team of the Master Plan on the Conservation and Sustainable Management of Water Catchment Areas in Kenya, July 2010 - September 2011
- c) April 2009 - Appointment as Reviewer – National Council of Science and Technology, 14th April 2009
- d) September 2008 - Moderator for Gender Roundtable Seminar Series, Kenyatta University, September 21, 2008
- e) Mentor and Academic Advisor, Mentoring Programme, Kenyatta University since 2007 to present

13.2. INTERNATIONAL

- a) Member, Advisory Board, Collaborative Research Centers CRC-TR228, 'Future Rural Africa', June 2019, www.futureruralafrica.de
- b) Member, International Advisory Board of Water Resources Research Centre (WARREC) 2015 to present
- c) Member, International Geographical Union, Geomorphology and Society Commission, Member of the Steering Committee, from September 2012 to present
- d) Regional expert and Trainer: University of Cologne DIES Global South ProGrant Proposal Writing Courses <http://proposalwriting.globalsouth.uni-koeln.de/392.html>
- e) Technical Review Committee for the International Development Research Centre (IDRC) for Extended Concept Notes and Full Proposals in response to the Call for Ecohealth Chairs and Global Environmental Change in Sub-Saharan Africa, 23 October to December 19, 2013
- f) Special Project Team (SPT) Member for the "Population health vulnerabilities to vector-borne diseases increasing resilience under climate change conditions in Africa" (Tropical Diseases Research/International Development Research Centre (TDR/IDRC) research initiative), September 2012 - August 2015
- g) 2011: Nominated as Mentor in the African Women in Agricultural Research and Development (AWARD), September 2011 to 2013
- h) 2010 – Country Advisor for the Development Partnerships in Higher Education (DeLPHE) assessing proposals – March 2010
- i) Appointed as Reviewer, African Journal of Environmental Science and Technology, AJEST 07-025
- j) 2007 – Present: Team Leader and Chair of 17 Research Project teams for the "Natural Resources Management" of the Lake Victoria Research (VICRES) Initiative Projects

management by the Inter University Council of East Africa (IUCEA) and funded by SIDA/SAREC under theme: “Natural Resources Management and Planning in Lake Victoria Basin” as listed below: Has coordinated, prepared and presented for the cluster, 3 position papers during VICRES Forums in 2007, 2008 and 2009

14.0 ACADEMIC LEADERSHIP

14.1. EXTERNAL EXAMINER AND EVALUATION

- a) 2019/2020-2021/2022 – University of Dar es Salaam External examiner for Department of Geography
- b) 2018-2020: Chuka University, External Examiner, for Faculty of Social Sciences June 11-13, 2018, June 2019
- c) 2018-2020: Maasai Mara University External Examiner, Department of Environmental Studies, Geography and Agriculture 27-30 July 2018, July 2019
- d) 2015-2018: University of Nairobi, External Examiner, July 2015, January 2016, September 2017, July 2018
- e) 2017: External Academic Programme Reviewer for Master of Arts Programme in Geography for South Eastern Kenya University, June 2017
- f) 2015, 2016: External Subject Expert: Validation of Geography Programme for Maasai Mara University, July 2015, March 2016
- g) 2013-2015: External Examiner, Karatina University, School of Social Sciences, Kenya, August 2015
- h) 2011-2015, External Examiner, Moi University, Department of Geography, Kenya (including Karatina Campus), May 29 2011, September 2012, February 2013, July 2014, May 2015.
- i) 2010-2012, External Examiner, University of Zambia in the Department of Geography, School of Natural Sciences, November 2011, June 2012, September 2013
- j) 2011-2012, External Examiner, University of Dar es Salaam, Department of Geography, July 2011, July 14-21, 2012
- k) 2010 and 2012, External Examiner, Makerere University, Department of Geography , Geo-Information and Climatic Sciences, July 2010, June 2011, June 20-25, 2012

14.2 TRAINING AND MENTORING

- a) 2019: Training on Grant Proposal Writing, Machakos University, 21-22 May 2019
- b) 2019: Training on Theory of Change, Kenyatta University, March 15, 2019
- c) 2018: Training on Effective PowerPoint Presentations and Poster Design and Presentation :Kenyatta University 15-16 October 2018
- d) 2017: Training in Research Grant writing, Kenyatta University, Postgraduate Training on Effective PowerPoint Presentations: June, July, August 2017
- e) 2016, 2017: Regional Trainer and Expert in the frame of the DIES-ProGRANT (Dialogue on Innovative Higher Education Strategies - Proposal Writing for Research Grants. Five day Practical-Oriented Training for New Researchers, University of Cape Town, November 17-21, 2014, Training at Karatina University, Kenya, March 7-12, 2016

- f) 2013: Facilitator: Scientific Paper Writing Workshop, Kenyatta University, Nairobi, Kenya, July 24-27, 2013
- g) 2012: Facilitator Scientific Paper Writing Workshop, Tumaini College, Kilimanjaro Christian Medical College, Moshi, Tanzania, July 3-6, 2012
- h) 2009-2013, 2015: German Academic Exchange Service (DAAD): Facilitator for PhD Proposal Writing Workshop, ICIPE, Nairobi, April and June 2011, April and June 2012, April and June 2015, Training PhD Scholars in preparation of Scientific Posters: During the Symposium “SMOKE: Science Meets Art” and Award of DAAD Scholarships 2011 to Germany April 1, Nairobi, Kenya

14.3 KEYNOTE ADDRESSES

- a) 2019: Invited keynote ABC/J Summer Festival Geoverbund Aachen Bonn Cologne Julich: Topic: *Mentoring of Early Career Scientists – Chances and Barriers in Tackling Africa’s Grand Challenges*, University of Cologne, 5th July 2019
- b) 2014: Invited to give a Keynote address - The Inaugural Conference IGU, Commission on Geomorphology and Society, Topic: *'Changing Environment and Dynamics in the Central Rift Valley Lakes, Kenya'* National Taiwan University, Taipei, Taiwan, 16 September 2014
- c) 2013: Invited to give a Keynote address for 27th Postgraduate Seminar for Masters Graduands, School of Pure and Applied Sciences, Theme: *"Supporting Devolved Government Systems in Kenya through research"*, Kenyatta University, Tuesday 3rd December 2013
- d) 2007: Invited to give a Keynote address at the 7th Biennial Conference of the Society of South Africa Geographers at Nelson Mandela University, Port Elizabeth South Africa: Title *Reflections on Challenges and Prospects of Geographical Research for Development of Africa*. July 8-10, 2007

15.0 MEMBERSHIP TO PROFESSIONAL BODIES AND SOCIAL SERVICES

- a) **Vice-President**, Association of African Women Geoscientists (AAWG), 2004-2018
- b) **Member**, University Network for Disaster Risk Reduction (UNEDRA)
- c) **National Secretary General**, Kenya DAAD Scholars Association (KDSA) 2006 – 2010, **Committee Member**, 2010 to 2013, **Member** 2006 to present
- d) **Member**, Ecological Society of Eastern Africa, (ESEA) 2010 to present
- e) **Member**, Kenyatta University Alumni Association (KUAA)

16.0 REFEREES

Prof. Chris Shisanya Department of Geography Kenyatta University P. O. Box 43844-00100 Nairobi, Kenya	Dr. Richard Wafula Dean, School of Humanities and Social Sciences, Kenyatta University, P. O. Box 43844-00100 Nairobi, Kenya	Dr. Thomas Kibutu Chairman, Department of Geography, P.O. Box 43844-00100 Nairobi, Kenya Kibutu.thomas@ku.ac.ke
---	---	--

shisanya.christopher@ku.ac.ke e Tel: +254-722312767	wafula.richard@ku.ac.ke Tel: +254-723985166	Tel:+254-720662376
--	---	---

Prof. Joy Apiyo Obando, January 2021, Nairobi, Kenya