

Curriculum Vitae

Personal Data

Name: Emmanuel C. Kipkorir

Profession: Senior Lecturer at Moi University

Conduct address:

Moi University,
Department of Environmental Monitoring, Planning and Management,
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Education

Doctor in Applied Biological Sciences (Ph.D.)

Thesis title: Optimal planning of deficit irrigation for multiple crop systems according to user specified strategy.

Date: January 1998 to May 2002

University: KU-Leuven (Belgium)

Master of Science in Water Resources Engineering (Option: Irrigation Engineering)

Date: October 1996 to September 1997

University: KU-Leuven / VUB-Brussels (Belgium)

Complementary Studies in Water Resources Engineering (Postgraduate diploma)

Date: October 1995 to June 1996

University: KU-Leuven / VUB-Brussels (Belgium)

Bachelor of Science in Civil Engineering

Date: October 1989 to November 1993

University: University of Nairobi (Kenya)

Professional Experience

2007-present: Kenya. Moi University, Department of Environmental Monitoring, Planning and Management: Senior Lecturer (May 2007- to date).

2003-2007: Kenya. Moi University, Department of Environmental Monitoring, Planning and Management: Lecturer (April 2003- April 2007).

1998-2002: Belgium. K.U.Leuven University, Faculty of Agricultural and Applied Biological Sciences: Research Assistant (January 1998 - September 2002).

1993-1995: Kenya. National Irrigation Board, Ahero Irrigation Scheme, Works Engineer.

Teaching assignments

* Moi University – School of Environmental Studies

- SES805: Environmental Impact Assessment/Environmental Audit
- SES835: Water, Health and Environment
- SES872: Environmental Planning and Management Techniques
- SES 971: Advanced Research Methods and Techniques
- SES879E: Water Resource Development Planning and Management
- SES866E: Environmental Hydrology

* Moi University- School of Engineering (Part Time)

- CVS 545E: Irrigation Engineering
- CVS 881E: Irrigation Engineering
- CVS486: Operation Research

Publications (international peer-reviewed journals)

Kipkorir, E.C., Raes, D., Labadie, J. 2001. Optimal allocation of short-term irrigation supply. *Irrigation and Drainage Systems*, **15(3)**: 247-266.

Kipkorir, E.C. 2002. Analysis of rainfall climate on the Njemps Flats, Baringo District, Kenya. *Journal of Arid Environments*, **50(3)**: 445-458.

Kipkorir, E.C., Sahli, A., Raes, D. 2002. MIOS: a decision tool for determination of optimal irrigated cropping pattern of a multicrop system under water scarcity constraints. *Irrigation and Drainage*, **51(2)**:155-166.

Kipkorir, E.C., Raes, D. 2002. Transformation of yield response factor into Jensen's sensitivity index. *Irrigation and Drainage Systems*, **16(1)**: 47- 52.

Kipkorir, E.C., Raes, D., Massawe, B. 2002. Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya. *Agricultural Water Management*, **56(3)**: 229-240.

Raes D., Elsen, F., Deproost, P., Vaes, R., De Nys, E and Kipkorir, E. C. 2003. Farmer-oriented charts for humid regions. *UK Irrigation Journal* (**31**): 19-21.

Raes, D., Geerts, S., Kipkorir, E.C., Wellens, J., Sahli, A. 2006. Simulation of yield decline as a result of water stress with a robust soil water balance model. *Agricultural Water Management*, **81(3)**: 335-357.

Kipkorir, E. C., Raes, D., Bargerei, R. J., Mugalavai, E. M. 2007. Evaluation of two risk assessment methods for sowing maize in Kenya. *Agricultural and Forestry Metrology*, **144**: 193-199.

Mugalavai, E. M., Kipkorir, E. C., Raes, D., Rao, M.S. 2008. Analysis of rainfall onset, cessation and length of growing season for western Kenya. *Agricultural and Forestry Metrology*, **148**:1123 – 1135.

Publications (chapters in books)

Kipkorir, E.C., D. Raes, J. Labadie. 2000. Optimization of the short-term supply of irrigation water for a multicrop scheme when conflict between supply and demand arises. In: W.R. Blain & C.A. Brebbia (Eds). Proceeding of the 8th International Conference on Hydraulic Engineering Software HYDROSOFT 2000, Estoril, Portugal, 12-14 June 2000: pp. 81- 90.

Kipkorir, E.C., De Nys, E., Raes, D., Tollens, E. 2001. Decision support for irrigation management of a multicrop system under water scarcity constraints. In: A.A. Soares and H.M. Saturnino (Eds.) Environment-Water: Competitive Use and Conservation Strategies for Water and Natural resources. International Commission on Irrigation and Drainage (ICID), Fortaleza, Brazil, 27-30 Augusts 2001: pp. 402 - 410.

Kipkorir, E.C., Sahli, A., Raes, D., Tollens, E. 2001. Optimal irrigated cropping pattern of a multicrop system under water scarcity constraints. In: C.A. Brebbia, P. Anagnostopoulos, K. Katsifarakis & A. H-D. Cheng (Eds). Proceeding of the 1st International Conference on Water Resources Management 2001, Halkidiki, Greece, 24-26 September 2001: pp. 37-46.

Raes, D., J. Portilla, E. C. Kipkorir, A. Shali and A. Sithole. 2003. Regional yield estimates derived from soil water deficits. UNESCO-MAB Drylands Series N°.3. Proceedings of the 2nd International Workshop on 'Sustainable management of marginal drylands'. Shiraz, Islamic Republic of Iran, 29 November – 2 December 2003: 9-18.

Kipkorir, E. C., Hindryckx, S., Raes D. 2003. Charts for guiding adjustment of irrigation interval to actual weather conditions. ASAL research conference, Narok, Kenya, (*in press*)

Kipkorir, E.C., Gachui, S. M., Mukabana, J., Raes, D. 2004. Evaluation of the onset of the growing season for various climatic zones in Kenya by means of a soil water balance method for different soil types. In: G. Demaree, M. De Dapper & J. Alexandre (Eds). Proceeding of the second International Conference "Tropical Climatology, Meteorology and Hydrology", Brussels, Belgium, 13-14 December 2001: pp. 137 - 150.

Mugalavai, E.M., Kipkorir, E.C., Rao, M.S. 2006. Predicting rainy season potential using growing season onset dates in the Kenyan Lake Victoria Basin. Paper presented at the 1st International conference on Disaster Management and Human Security in Africa. 11th – 13th October 2006. Western University College of Science and Technology, Kakamega, Kenya. (*Proceedings in Press*).