

C.V.

GENERAL INFORMATION

Name: Abdel Rahman Ahmed Khatir Ismael
Nationality: Sudanese
Date of Birth: 1/1/1961
Place of Birth: El Obied, North Kordofan State, Sudan
Social Status: Married, with one child
Profession: Natural Resources/GIS Specialist
Languages: Arabic, English (very good)

Address:

Agricultural Research & Technology Corporation,
El Obied Agricultural Research Station, P.O. Box 429 – El Obied
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Qualifications:

- Bsc. (Honour) in Agriculture, University of Khartoum, (1985).
- Master degree in Geoinformation Science and Earth Observation (GIS/Remote Sensing). Specialization Natural Resources Management, International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, the Netherlands, (August 2000).
- PhD degree in range management: Application of RAPS Model to analyze pastoral systems in North Kordofan State, Faculty of Natural Resources and Environmental Studies, University of Kordofan (April 2012)

Courses Attended

(1) Management of NGOs

Mananga Management Center, Mananga, Kingdom of Swaziland
Feb- Mar 1993

(2) Study Tour to Syria,

Arab Institute for Range and Forestry Science, Lattakia, Arab Republic of Syria, Nov 1997.

(3) Training on Land Cover Classification System (LCCS)

Regional Centre for Mapping Resources and Development (RCMRD), Nairobi, Kenya, April-May 2003.

(4) Application with the Newest Multi-spectral Environmental Satellites

Mediterranean Agency for Remote Sensing (MARS) & Space Science Engineering Center (SSEC), University of Wisconsin-Madison, Benevento, Italy, June 2007

(5) Training of Analysis of MODIS NDVI/EVI by computer software (TIMESAT)

Department of Physical Geography, Lund University, Lund, Sweden
November 2010

ACQUIRED SKILLS IN GEO-INFORMATION TECHNOLOGY

Geographical Information System (GIS):

Experienced in data manipulation, analysis and visualization using vector and raster data

Remote Sensing:

Experienced in basic image processing procedures as well as visual and digital image interpretation.

Mapping Land Cover, Species and Habitat:

Design and execute a vegetation survey by using aerospace products resulting in a map in the context of natural resources management (NRM)/land use planning (LUP) issues:

- Interpretations of aerial photographs and satellite imagery using vegetation cover and field pattern as diagnostic characteristics.
- Description, classification and delineation of terrain map units, based on relief and drainage pattern visible on aerial photographs.
- Recording vegetation observation on the ground stratified by image interpretation maps.

Biodiversity Mapping and Habitat Evaluation:

Mapping of biodiversity and assessment of the suitability of land as a wildlife habitat

Ecosystem Modeling:

Use of information in data – layers of a GIS to model ecosystem and running different management simulations.

Monitoring of crops and rangeland

Application of low-resolution NOAA AVHRR data to analyze time series of vegetation index and rainfall image data for monitoring crops and rangelands.

AFRICOVER dataset

Mapping and quantifying range, forest and agriculture areas from FAO-AFRICOVER dataset and application of Land Cover Classification System (LCCS) in regional mapping

Global Positioning System (GPS)

Application of GPS in positioning, navigation and mapping

WORK EXPERIENCE**2003 – Present**

Station: ARC (Agricultural Research & Technology Corporation), El Obied Agricultural Research Station

2000 – 2003

Station: RPA (Range and Pasture Admin.) Bara, Sodary, and Gabrat El Sheikh Provinces, North Kordofan State.

1995 - 2000

Station: Community Based Rangeland Rehabilitation for Carbon Sequestration and Biodiversity (Gireigikh Project) – UNDP/GEF/ Range & Pasture Admin (RPA)

1993 – 1995

Station: RPA Sodary Province, North Kordofan State

1991 - 1993

Station: RPA El Obied Office, North Kordofan State

1990 - 1991

Station: Angarko Project for Fodder Production, Dilling Province, South Kordofan Province

PUBLICATIONS

1. A.A. Khatir (2004).

Mapping of Rangeland in North Kordofan State, in *GIS / RS OVERVIEW FOR SUDAN*, Compiled by Craig von Hagen FAO, Rome

2. A.A. Khatir & B. Elmqvist (2007)

The Potential of Bush Fallows with Changing Roles of Agriculture, *Journal of Arid Environment*, Volume 70, Issue 2, July 2007, Pages 329–343

3. A. Warren, L. Olsson, and A.A. Khatir (2008)

The Design of Carbon Sequestration Projects Based on Fallowing in the Sahil. (*Manuscript*)

4. A. A. Khatir et. al (2011)

Changes and threats facing nomads under drylands - the case of *Shanabla* tribe in Western Sudan, DCG (*Drylands Coordination Group*) Newsletter 07.09.2011

5. A. A. Khatir and J. Barram (2012)

Assessment of rangelands biomass by Remote Sensing and Geographical Information System (GIS) in North Kordofan State, Sudan. Submitted to *Journal of Science and Technology (JST)*, Sudan University for Science and Technology

6. A. A. Khatir and J. Barram (2012)

Application of the RAPS Model to Analyze Pastoral Systems in North Kordofan State, Sudan. Submitted to *Journal of Science and Technology (JST)*, Sudan University for Science and Technology

7. J. Barram, A. A. Khatir and S. A. Ali (2012)

Relationship between some growth parameters and browse biomass produced from *Ailanthus excelsa* tree in Kordofan, Sudan (submitted)

CONSULTATIONS

1. Study of the Opportunities for Livestock Feeding Development in NKRDP Project area

North Kordofan Rural Development Project (NKRDP) of the International Fund for Agricultural Development (IFAD)

El Obied, April 2004

2. South Kordofan Range Management Strategy and Khor Abu Habil Catchments Basin Planning and Water Development Study.

North Kordofan Rural Development Project (NKRDP) and SKRDP /South Kordofan Rural Development Program (SKRDP)

YAM Counsalt, Khartoum, December 2004.

3. Vegetation Baseline Survey, Makhrif Um Hager (North Kordofan State).

Reduction of Resources Based Conflicts among farmers and pastoralist Project (RRBC), UNDP (Khartoum), SOS-International

El Obied, November 2004

4. Vegetation Baseline Survey, Um Gumut area (North Kordofan State).

Drought Recovery Project

Federal Ministry of Agriculture and the Arab Centre for the studies of Arid Zones and Dry Land (ACSAD)

El Obied, October 2005

5. Mapping of Demarcated Cattle Routes in RRBC Project's area

Reduction of Resources Based Conflicts among farmers and pastoralist Project (RRBC), UNDP (Khartoum), SOS-International

El Obied, August 2005

6. Annual Range Assessment Surveys:

Range & Pasture Admin (RPA), North Kordofan State.

El Obied, December 2004-2012

7. Mapping of Animal Disease in Kordofan Region

Western Sudan Resource Management Programme (WSRMP)/ Ministry of Agriculture and Animal Wealth (North and South Kordofan State)

El Obied, 2007

8. Diagnostic Survey for WSRMP project's area

Western Sudan Resource Management Programme (WSRMP)

ARC-El Obied Agricultural Research Station, El Obied, 2007

9. Mapping of Hamrat El-Wuz Pilot Project,

Ministry of Agriculture and Animal Wealth, North Kordofan State,
El Obied, March 2008

10. Land Resources Assessment and Mapping for Natural Resources Development

Western Sudan Resource Management Programme (WSRMP)
Remote Sensing Authority –National Centre for Research
Khartoum, March 2009

11. Strategies for developing livestock sector in North Kordofan State

General Administration of Animal Wealth, North Kordofan State Ministry of
Agriculture, August 2011 (in Arabic)

12. Livestock Breed Characterization in the WSRMP area,

Western Sudan Resources Management Programme (WSRMP)
The International Fund for Agricultural Development (IFAD),
January 2012

12. Land use Map for North Kordofan State

Office of Investment and Microfinance,
Secretariat of the Government, North Kordofan State
April 2012

MANUALS

1. Conducting vegetation measurements in the field (in Arabic)
2. Range Extension's Manual (in Arabic)
3. Common range species in Western Sudan
4. ArcView-GIS training manual. Examples used in training from Kordofan environment

CONDUCTED TRAINING COURSES

1. Training of Range and Forestry staff on application of Global Positioning System (GPS), El Obied: 9-11/11/2007
2. Training of Solar Energy staff on applications of GPS in surveys and navigation, El Obied: 20-24/12/2008.
3. Training of Forest Research Center staff (Agricultural Research Corporation) in GPS and GIS (ArcGIS) basics. Soba, Khartoum, April 2012

REFERENCES

Prof. Fiasal El-Hag

Director, Dryland Research Center (DRC) - Agricultural Research Corporation (ARC)

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Phone number: 0912959765

Dr. Jumma Barram Gadallah

Head of Animal Production Department, Faculty of Natural Resources and Environmental Studies, University of Kordofan

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Prof. Abdel Hafeez Ali Mohammed

Head of Range Management Department, Faculty of Forestry and Range Sciences, Sudan University for Science and Technology

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Last updated: November 2012.