

Curreculum Vitae

April 2006

Personal:

Zein A.O. Sharif – Sudanese national born 1939-Married with 5 children -have excellent knowledge of both *Arabic* and *English* Languages; spoken and written.

Academic Qualifications:

- Sudan High School (*Cambridge*) Certificate (1960)
- BSc. Honours - (*Geography-Arabic Language*) = University of Khartoum- 1966.
- Post Graduate Diploma (*CARTOGRAPHY*) Glasgow University - U.K-1972
- Certificate in: = *Planning for productivity Efficiency* = Centre for Management Development -Khartoum-1979.
- Certificate in: *Cartographic Applications of Remote Sensing Data* = Regional Centre for Services in Surveying Mapping and Remote Sensing (RCSSMRC) –Nairobi -1988.
- Certificate in: *Map Revision using SPOT Satellite Data* =RCSSMRS-Nairobi-1989.
- Certificate of Cartographic Achievement – *Techniche. Fachhochschle* = Technical University of Berlin -1989.

Professional - hands on - Training Courses at:

- Cartographic Department, Macauly Institute for Soil Research- University of Aberdeen-U.K - 1970.
- Soil Survey of England & Wales- Harpenden, Hertfordshire -U.K. - 1971.
- Regional Centre for Services in Surveying, Mapping and Remote Sensing-RCSSMRS-Nairobi-Kenya – 1983 – 84 – 86 – 88 - 1989.
- Mapping Division - United States Geological Survey (USGS)– Virginia -1985.
- Tecnich Fachhochule-Technical University of Berlin-Germany – 1989.

Employment Record:

- (1966-67) - **Team Leader** – Agricultural Census Division - Department of Statistics- Sudan Government.
Data Collection and processing for Crop Yield Assessment.
- (1967-70) – **Counterpart Cartographer** - FAO Project (SUD 7/553)-
Strengthening the Soil Survey of Sudan.
- (1970-72) - **Post Graduate Studies and Professional Training**-
University of Glasgow-UK
- (1972-89) - **Chief Cartographer** - Ministry of Agriculture and Natural Resources -
Sudan.
- (1990-00) - **Chief Cartographer / Director of Mapping** = Regional Centre
For Services in Surveying, Mapping and Remote Sensing (RCSSMRS) –
Nairobi.
- (2000-01) - **Consultant Cartographer**- (RCSSMRS).
- (2001-02) – **Administrative Consultant** -Libyan Embassy-Nairobi.
- (2002-03) - **Consultant Cartographer** – Sudan National Survey Corporation.
- (2003 – April/Aug.) **Consultant Cartographer** – UNDP – Sudan.
- (2003-04)-**Consultant** – Database Development - National Population Council – Sudan.
- (2004-Aug. /Dec.) **Consultant** – (*Establishment of Central/Regional Digital Mapping
Facilities*) - Higher Council for Environment –Sudan.
- (2005 -) – **Consultant Cartographer / Remote Sensing Applications.**
Environment and Development Services (EDS) Consulting Group -
Khartoum - Sudan

Consultancy and Mapping Projects Implemented:

- 1) University of Glasgow - (U.K.): - (1972)
 - Dundrum Nature Reserve Map – (Pub. – 1971).
 - The Mouth of River Endric Map (Pub. – 1971).

2) Regional Centre for Services in Surveying, Mapping and Remote Sensing.(RCSSMRS) :

- **Image Mapping of Central Darfur Region - Sudan - (1983):**
 - i. **Principal Transport Routes (Pub.)**
 - ii. **Hydrology (Pub.)**
 - iii. **Land Systems and Soils. (Pub.)**
- **Image Mapping of Central Kordufan Region-Sudan - (1985).**

3) USAID: Sponsored project for Crop Yield Assessment – Sudan - (1986).

Image interpretation and mapping of randomly sampled areas country wide, for selection of statistical samples using Area Sampling Frame Methodology – (1985).

4) FAO - United Nations:

- **Sudan Fuel Wood Assessment Project' Maps - National Forestry Corporation – Sudan - (1986).**
- **Assistance to Sudan Rangelands Administration:**

(Central Sudan rangelands inventory and mapping using Land Satellite Data: image interpretation –mosaiking - thematic legends development and Cartography. (Pub.)

5) Hunting Technical Services- (U.K.):

- **Rehabilitation and modernization of *White and Blue Niles* Agricultural Irrigation Schemes (Sudan) Projects' Soils & Land Evaluation Maps Atlas - (1987).**

6) Arab Organization for Agricultural Development (AOAD):

- **Reconnaissance Soils Atlas of Sudan, using Satellite Data-(Country coverage at 1:M Scale)**
- **Land evaluation Maps of rain-fed mechanized Agricultural Schemes in south Blue Nile province (Sudan).**

7) Sudanese Refugees Authority:

- **Selection and Inventory of proposed sites for Refugees Settlements Projects' maps. -Team member.**

8) Arab Corporation for Agricultural Investment:

- Land cover mapping of Damazin Agricultural scheme project area -Sudan. (Team member).

9) Institutes of Environmental studies—Universities of London - (U.K) and Khartoum- (Sudan):

- Rehabilitation of - Sudan Gum Arabic Belt Project (1989) *Remote Sensing component.* (Team member).

10) Technical University of Berlin --Technische Fachhochschule:

- Multi-coloured semi-detailed Soil Image Map of Khartoum Province, at ¼ million Scale. *Satellite Imagery interpretation, thematic legend development and Cartographic processing.*

11) Eros Data Centre (USAID), RCSSMRS (Nairobi) and Ministry of Agriculture (Sudan):

- Sudan Reforestation and Anti-Desertification Mapping Project, (SRAD): *Satellite Imagery interpretation and production of full colour Land use/cover Image maps at ¼ million Scale. (Full coverage not completed due to termination of project.)*

12) Regional Centre for Services in Surveying, Mapping and Remote Sensing - RCSSMRS - Nairobi):

- Republic of Tanzania Land cover Map- based on Satellite Imagery interpretation. (Pub.)
- Satellite Image Map of the City of (Gaboroni) and its Environs -Botswana - (Pub.)
- Dar as Salaam Region - Tanzania- land cover Map – (Pub.)
- Image Map of Greater Khartoum-at 1:50 000 Scale depicting temporal fluctuations of the White, Blue and Main Niles' flood plains. (Pub.)
- Revision of Menengei (Kenya) Topographic sheet at 1:50 000 Scale using SPOT panchromatic data. (Pub.)
- Cattle Distribution in Africa: (At 1:10M Scale.) (Pub.)
 - i. General distribution
 - ii. Distributions in relation to *Tse Tse fly.*
 - iii. Distribution in relation to *Desertification.*
- SPOT Satellite Image Country Maps of:

- i. Comoros (Pub.)
- ii. Seychelles (Pub.)
- iii. Mauritius (Pub.)

- Swaziland SPOT Digital Satellite Image Map: (Simulated Natural Color - at 1:250 000 Scale.) (Pub.)

(Exclusive digital procedures and techniques employed to Interpret Compile, Design and Construct the country coverage Image Mosaic Map comprising (14) SPOT scenes.)

13) Sudan National Survey Corporation:

- *Technical Advisor to the Director General*

System design, upgrading, installation, configuration and networking of a Digital Facility at the Corporation for updating the historical National ¼ million scale series and technical staff hands-on training on Digital Cartography and Remote Sensing applications.

14) UNDP - United Nation – Khartoum:

- **Jebel Marra Integrated Rural Development Project (No: SUD/ 02/ 006) Digital Cartography and related Computer Graphics.**

Thirty assorted full colour thematic maps, charts and diagrams compiled, designed and digitally constructed.

- **Northern Kordofan Integrated Rural Development Project:**

Design and digital construction of Hydro-geo-logical maps for Bara/ Sodary Municipalities in shape files format for Geographic Information System (GIS) applications.

15) National Population Council - Khartoum

Development of comprehensive Proposal for building a National Integrated Population Information System (NIPIS); integrating Resource / Environmental / Socio-economic parameters and Population variables.

16) Higher Council for Environment and Natural Resources-(HCENR):

Dinder National Park Consolidation Phase Project-(NDPP) –UNDP - Sudan {Establishment of Four GIS Centers and related Staff Capacity Building}

Terms of reference:

- ✓ *Review and screening of applications submitted by firms/individuals*

For establishing the Centers and training of staff in the three States of Gedarif, Sinnar and Blue Nile on GIS methodologies and techniques

- ✓ *Preparation of detailed report on technical capabilities of applicants; their relevant experiences and ability to deliver.*
- ✓ *Chair the Selection Committee.*
- ✓ *Preparation of detailed Terms of Reference for the selected agency.*
- ✓ *Supervision of Technical Support provided to ensure achievement of targeted goals.*
- ✓ *Evaluation of progress and final reports submitted by consultants.*

**17) IFAD – National Water Corporation (NWC) – Sudan:
Water and Environment Sanitation Project
North Kordofan State**

Water Supply Situation & Future Development Plan

- **Recent high resolution Satellite and Space born Radar imageries and existing Topographic State coverage were geo-referenced, digitally mosaiked, interpreted, classified and legends developed.**
Shape files constructed for physiographic, thematic and infrastructural Spatial data components for subsequent digital linkage to related attributes, hence the development of the targeted *State Water Sources/Resources Information System.*
- ***Further specialized classification of above Space data to generate:***
 - **Detailed roads, drainage networks and catchments areas delineation & modeling.**
 - **Detailed geological structures (lineaments, folds, faults and fractures).**
 - **Digital Terrain Models (DTMs).**
 - **Line and color layered contours at relevant vertical intervals.**
 - **Topographic cross sections wherever required.**
 - **3D perspective of mapped areas.**
 - **Geodetic control (x-y-z) values wherever required.**
 - **Up-dated versions of existing topographic / thematic coverage.**

❖ **Special 3D Satellite/Radar image maps produced in full colour:**

18) Dar Consult (SEDIC) Khartoum

- *Dongola – Old Wadi Hala proposed road alignment (10 map sheets & Digital Image Mosaic of the project area).*

19) Eastern Nuba Mountains Development Corporation –(NGO):

- *Six image map sheets depicting :- (Physiography - Hydrography - Soils - Geology -, Land use/cover and Plan metric Infrastructure.*

20) Partners In Environment Sustainability (NGO) Khartoum-

- *Nima / Difra / Higlig petroleum concession area assorted Satellite / Radar image maps for Environment Impact Assessment (EIA).*

21) Ministry of Infrastructure & Urban Planning – Unity State – South Sudan Government.
Rumbek – Leer Proposed Road Alignment

Processing, classification and Digital construction of Sat. /Radar Imageries maps coverage depicting detailed Topography & Hydrology, Land use /cover, Line & color Layered contour at required relevant Vertical Interval, Geodetic Control, Infrastructure and the Proposed Road Alignment.

Societies and committees Membership:

- *Sudanese Soil Science Society (1970 - present).*
- *Sudanese Agricultural Society (1970 – present).*
- *African Cartography and Remote Sensing Society - (1992 – present)*
- *Management Committee (RCSSMRS) - (1990 - 2000)*
- *Governing Council (RCSSMRS) Technical Committee - (1990 – 2000)*
- *Chairman-Sudanese Community – Kenya. (2000-2001)*
- *Council of Trustees – Shambat Town Socio – Cultural Foundation (2001-....).*

❖ *Co-editor :*

Earth Resources Mapping in Africa
(The Newsletter of the RCSSMRS – Nairobi – Kenya- 1990-2000)

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