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GEOLOGICAL SURVEY

MINISTRY OF MINES AND ENERGY
NAMIBIA

2017
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JASPER, M.J.U., STANISTREET, I.G. & CHARLESWORTH, E.G. Neoproterozoic inversion tectonics, half-graben depositional system, and controversies, Gariep fold-thrust belt, southern Namibia.


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MILLER, R.McG. The Agate Mountain Carbonatite Complex, Cape Fria, NW Namibia.

AIZAWA, M., BLUCK, B., CARTWRIGHT, J., MILNER, S., SWART, R. & WARD, J. Constraints on the geomorphological evolution of Namibia from the offshore stratigraphic record.


PICKFORD, M. Neogene and Quaternary vertebrate biochronology of the Spergebiet and Otavi Mountainland, Namibia.

SENUT, B. Fossil rattle eggshells: a useful tool for Cainozoic biostratigraphy in Namibia.

MEIN, P., PICKFORD, M. & SENUT, B. Late Miocene micromammals from the Harasib karst deposits, Namibia. Part I – Large murids and non-murid rodents.

MEIN, P., PICKFORD, M. & SENUT, B. Late Miocene micromammals from the Harasib karst deposits, Namibia. Part 2a – Myocricetodoninae, Petromyscinae and Namibimyinae (Redentina, Gerbillidae).

COCKBURN, H.A.P. & SUMMERFIELD, M.A. A progress report on the use of in situ-produced
cosmogenic isotopes to evaluate rates of landscape development in central Namibia.
SIMMONDS, A.L.E. & SMALLEY, T.J. Kalahari aquifers in the Gam area of north-eastern Namibia.

Vol. 13, 2004, 106 pp. $\text{N}\$105.00
MWIYA, S. An Overview of Semi-Quantitative, Qualitative and Knowledge-Based System Methodologies Relevant to Solid Waste Disposal Site Design in Arid and Semi-arid Environments
MWIYA, S. & GILES, D. A knowledge-based approach to Municipal Solid Waste Disposal Site Development in the Karstified Dolomitic terrain around the town of Tsumeb in North-Central Namibia

Vol. 14, 2009, 93 pp. (only available digitally) $\text{N}$95.00
Schneider, G.I.C. & Walmsley, B. The Sperrgebiet Land Use Plan – An example of integrated Management of Natural Resources

Vol. 15, 2014, 142 pp. (only available digitally) $\text{N}$140.00
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Communications 1 – 15 CD (still in preparation) $\text{N}$1000.00

1.7 DEPARTMENTAL REPORTS
Miller, R. McG. 1985. The Mining and Production of Diamonds at CDM (1945-1983). $\text{N}$45.00

1.8 SPECIAL PUBLICATIONS

1.8.1 Special publication of the Geological Survey of Namibia
GEOLOGICAL SURVEY OF NAMIBIA. 1992. The Mineral Resources of Namibia, 598 pp. $\text{N}$600.00
GEOLOGICAL SURVEY OF NAMIBIA. 1992. The Mineral Resources of Namibia, CD (pdf) $\text{N}$600.00
GEOLOGICAL SURVEY OF NAMIBIA. 2002. The Fossil Record of Namibia. M. Pickford & B. Senut, 39 pp. $\text{N}$40.00

1.8.2 Special publications of the Ministry of Mines and Energy

1.8.3 Special Publication 11 of the Geological Society of South Africa

1.8.4 Special publication of the Geological Society of Namibia and the Desert Ecological Research Unit of Namibia 1990
Environmental Implications of Mining and Prospecting in the Namib, 57 pp.
OUT OF PRINT: Photocopies only available

OUT OF PRINT: Photocopies only available

Proterozoic crustal & Metallogenic Evolution – Excursion 1, 2, 3, 4, 5. (Sold separately), 121 pp.  
OUT OF PRINT: Photocopies only available

1.8.5. SADC Publications. Mining Sector Coordinating Unit. Mineral Resource Survey Programme
Bauxite deposits in the SADC region. (Project AAA 3.5), 1997.  
Heavy-mineral sand deposits in the SADC region. (Project AAA 3.6), 1997.  
Diamonds in the SADC Region (Project AAA 1.2), 1999.

1.8.6 Special Publication (Minerals Development Fund)
Volume 1 : Archaean to Mesoproterozoic  
Volume 2 : Neoproterozoic to Lower Palaeozoic  
Volume 3 : Palaeozoic to Cenozoic

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N$ 150.00

2. REPORTS ON OPEN FILE

2.1 REGIONAL GEOLOGY

RG-1 The geology and structure of the area between Etjo and Waterberg, Areas 2116 and 2117. G Lüdtke, 1970. 10 pp.  
RG-3 The geology of an area south-east of Walvis Bay: Lithology, sedimentation and field relationships. E W Sawyer, 1976. 123 p, 13 diagrams, 6 maps.  
RG-4 Pleistocene to recent faulting in the area west of Omaruru (SWA/Namibia). J A Klein, 1980. 35 p, 2 maps.  

2.2 MINERAL RESOURCE SERIES

MRS 01 Asbestos, G I C Schneider & G Genis, 1992, 2 pp.  
MRS 02 Alunite, G I C Schneider, 1992, 1 pp.  
MRS 03 Barite, G I C Schneider & K G Seeger, 1992, 4 pp.  
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MRS 08 Feldspar, G I C Schneider, 1992, 2 pp.  
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EG 019  A report on the geology of the Klein Aub copper prospect, Rehoboth District. (Anon 1962 ?) 8 pp., 1 map.

EG 020  The geology of the Otjosondu manganese occurrence (Vermaak, C.F. 1969). 7 pp + 1 map


EG 022  Minor Cu-occurrences: Rehoboth; KwaKwas 251, Hamis 280, Opdam 284, Witkranz 342, Auchas 347, (Söhinge, G and Linning, K. 1961/62). 29 pp.


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2.4 GEOPHYSICS

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GPX-34  Airborne Magnetic and Radiometric Survey - Grünau and extension areas Namibia. E O Köstlin (CDM Mineral Surveys), August 1984. 31 pp.  N$35.00
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GPX-38  An aeromagnetic interpretation of the geology of the Otjasondu mining area of South West Africa/Namibia (Sheets 2117, 2118). Joan Tod, Geotexrel Ltd., Ottawa, 1983. 38 pp.  N$45.00
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2.5 ENGINEERING GEOLOGY

EN1 Report on the availability of naturally occurring building materials in SWA/Namibia. A Schall (Geological Survey), L von Solms (Department of Transport), June 1983. 5 pp. N$10.00

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3.3.5 **SCALE 1:100 000 COLOUR PLOTS**  
For available areas see index map below  

3.3.6 **SCALE 1:100 000**  
Black and white copies (see index map below)  

3.3.7 **SCALE 1:50 000**  
Colour plots available on request  
(clipped from 100K or 250K digital data according to availability – see above)
3.3.8 **OTHER SCALES**

Black and white copies

3.3.8.1 **SCALE 1:125 000**

Geology of the Otavi Mountainland (colour plot)

- 2618 Keetmanshoop (Areas 2616D; 2619C and 2619D – B & W prints)
- 2716 Ai-Ais (Areas 2717D – B & W prints)
- 2718 Grunau (Areas 2718C and 2718D – B & W prints)

N$250.00

3.3.8.2 **SCALE 1:750 000**

Simplified map of the Nama Group in Namibia (colour plot)

N$120.00

3.3.8.5 **SCALE 1:100 000**

Mesoproterozoic Belts of Namibia (colour plot)

N$120.00

3.3.8.7 **CUSTOMIZED COLOUR PLOTS VARIOUS SCALES [ON REQUEST]**

(for available areas see index map)

Charged on the basis of time needed for creating customized map

Digital (jpg/tif/pdf) (minimum cost)

N$280.00/hr

Printouts are charged on the basis of map size

- A4
  - N$10.00
- A3
  - N$20.00
- A2
  - N$50.00
- A1
  - N$100.00
- A0
  - N$150.00

3.4 **DIGITAL GEOLOGICAL DATA**

- PURCHASER is required to complete a confidentiality and copyright agreement at the time of purchase of any digital data from GEOLOGICAL SURVEY.
- Orders must be placed in writing at least seven (7) working days in advance of delivery.
- Data are supplied in ESRI shapefile format (UTM33S WGS84)
- Image files are can be supplied in pdf, jpg or tif format (specify when ordering)

**3.4.1 GENERAL**

Simplified Geological Map of Namibia   Flyer

Free

**3.4.2 1:2 000 000 [SCALE OF SOURCE DATA]**

Simplified Geological Map of Namibia (1980)

- Geology; roads, rivers, farms, regions & districts, nature reserves
- NB. Topocadastral data from 1:1mio geological map of Namibia (1980)

Image format (jpg)

N$300.00

N$150.00

**3.4.3 1:1 000 000 [SCALE OF SOURCE DATA]**

Geological Map of Namibia (1980)

- Geology; roads, rivers, farms, regions & districts, nature reserves
- NB. Topocadastral data from 1:1mio geological map of Namibia (1980)

Image format (jpg)

N$500.00

N$200.00

**3.4.4 1:250 000 SERIES**

[Geology compiled from 1:50 000 and 1:100 000 scale field maps; topo data compiled from 1:250 000 topo series published between 1970 and 1980, partly incomplete; due to different mapping status maps vary in detail]

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22

1712 Swartbooisdrif 1912 Sesfontein 1916 Tsumeb 2013 Cape Crosser sheet N$1000.00
2016 Otjiwarongo 2116 Okahandja 2218 Gobabis 2414 Meob Bay
2416 Mariental 2514 Spencer Bay 2516 Gibeon 2615 Lüderitz
2616 Bethanien 2618 Keetmanshoop 2716 Ai-Ais 2718 Grunau
2816 Otjiwarongo 2818 Warmbad 1914 Kamanjab

2518 Koes
2418 Aranos
2318 Leonardville

1814 Etosha West (areas 1814A and C only) N$400.00
Entire set (one shape file) N$30 000.00
Image format per map sheet N$300.00

3.4.5 1:100 000 BLOCKS
1:250 000 data also available as 1:100 000 blocks dependant on price of 250K sheet
e.g. Block 2014A – Fransfontein sheet = N$1500/8+15% = N$215

Image format (jpg/pdf) per map sheet N$150.00

3.4.6 THEMATIC MAPS
Damara Orogen map (1:500 000) N$2000.00
Image format (jpg/pdf) N$500.00
Sperrgebiet map (1:500 000) N$500.00
Image format N$200.00
Otavi Mountainland map (1:125 000) N$1500.00
Image format N$500.00
Otavi Mountainland map (1:250 000) N$200.00
Image format
Mesoproterozoic Belts of Namibia N$1200.00
Image format available only for generalized version N$100.00
Nama Group in Namibia N$1200.00
Image format available only for generalized version N$100.00

4. GEOPHYSICAL MAPS AND DIGITAL DATA

4.1 REGIONAL MAGNETIC DATA - Generally 1 km line spacing
(payable to Geological Survey +10% GST)

4.1.1 MAPS (magnetics and radiometrics where available)
(see index map GPX-No. 1)

4.1.1.1 1:250 000 scale colour maps N$120.00
4.1.1.2 1:1 000 000 scale colour maps (4 sheets) Magnetic only N$400.00
4.1.2 DIGITAL DATA (magnetics and radiometrics where available)

Grids only

N$1 000.00

4.2 HIGH RESOLUTION MAGNETIC AND RADIOMETRIC DATA – 200 m line spacing
(see index map GPX-No. 2)

Magnetics and Radiometrics (where available)

1:250 000 scale
N$1000.00
1:2 000 000 scale
N$2000.00

4.3 DIGITAL GEOPHYSICAL DATA

The new 2017 pricelist applies for the scissorabge geophysical data sets available from the Geophysics and Remote Sensing Division:

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Airborne magnetic map series
Airborne back-calibrated radiometric maps

INDEX MAP GPX-NO. 1

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### 4.4 OPEN FILE AIRBORNE GEOPHYSICAL DATA (index map GPX-No. 3)

Cost available upon request; not exceeding N$1.00 per line km

#### 4.4.1 DIGITAL DATA

##### 4.3.1.1 VARIOUS SURVEYS

| 4.3.1.1.1 | Gold Fields (abandoned Exploration Licences) |
| 4.3.1.1.2 | RTZ (abandoned Exploration Licences) |
| 4.3.1.1.3 | Gam Survey (Aeromagnetic) |
| 4.3.1.1.4 | Japanese Project (abandoned Exploration Licences) |
| 4.3.1.1.5 | Ruacana (Anglo American) (abandoned Exploration Licences) |
| 4.3.1.1.6 | German Groundwater Exploration Project - EM and magnetic data |

(Digital data in various formats - for detailed information and price where not listed please contact GSN)

##### 4.3.1.2 EM CASE HISTORIES

| 4.3.1.2.1 | Otjimboyo (A) |
| 4.3.1.2.2 | Elbe (B) |
| 4.3.1.2.3 | Otjiere (C) |
| 4.3.1.2.4 | Gorob (D) |
| 4.3.1.2.5 | Hope (E) |
| 4.3.1.2.6 | Namib Lead (F) |
| 4.3.1.2.7 | Hohewarte (G) |
| 4.3.1.2.8 | Otjosondu (H) |
| 4.3.1.2.9 | Sandamap (I) |
| 4.3.1.2.10 | Onganja (K) |
NOTE:
PAYMENTS FOR HIGH RESOLUTION DATA ARE MADE PAYABLE TO:
MINERALS DEVELOPMENT FUND

For further queries, contact the Geophysics Division at +264-(0)61-284-8369.

5. GEOCHEMICAL MAPS AND ANALYSES

5.1 GEOCHEMICAL MAPS BY CDM MINERAL SURVEYS

Black and white copies
Report

5.1.1 SCALE 1:50 000
(Seven maps per map sheet, i.e. geology, sample sites, Zn, Ni, Cu, Co, Pb data + report)
1814 Etosha West 1914 Kamanjab
1814 AA Otivero 1914 AA Omaramba
1814 AB Anakange 1914 AB Kowares
1814 AC Otjua 2120 Rietfontein
1814 AD Onamatanga
Data also available in digital (dbf) format (complete set ca. 710 000 data points; see index map below)

5.2 ARCHIVAL GEOCHEMICAL DATA (dbf FORMAT)

Data points. Consult geologist for data available

5.3 LABORATORY CHARGES

5.3.1 General sample handling and preparation

5.3.1.1 Rock slabbing and core cutting

Rock slabs:
Core cutting: 35 mm diameter
Core cutting: 46 mm diameter
Core cutting: 67 mm diameter

5.3.1.2 Polished rock slabs
Cutting and polishing (single side):

5.3.1.3 Sample Preparation
Splitting, crushing and pulverising (carbon-steel vessel):
Sieving:
5.3.1.4 Heavy Mineral Separation (heavy liquids, table, magnetic)
Including sample preparation (weighing, sieving and washing):

5.3.2 Petrography and Mineralogy

5.3.2.1 Petrographic thin sections:
- Standard section
  - 76 x 51mm
  - 76 x 110mm
- Polished thin section (standard size)
- Polished block (standard size)
5.3.2.2 Petrographic descriptions:  
N$182.00/hr

5.3.2.3 XRD mineralogical determination  
XRD trace and basic interpretation:  
N$169.00/sample

5.3.3 Chemical analysis (rocks, minerals, soils, water and oil)  
(excluding crushing and pulverising, including loss on ignition)

5.3.3.1 XRF [Pressed powder pellets and/or fusion discs]
- Scan (Na to U), plus semi-quantitative analysis:  
N$36/sample
- Quantitative: First element  
N$55.00/sample
- Subsequent elements  
N$7.00/element/sample

5.3.3.2 Portable XRF (Pulverized samples, rocks, minerals) data formatted in MS Excel
- Qualitative analysis (rocks, minerals)  
N$18/sample  
or N$218/hr
- Semi-quantitative analysis (powdered samples, excl. sample prep.)  
N$24/sample  
or N$242/hr
- Drill core analysis (scanning)  
N$218/hr

5.3.3.3 ICP-AES and AAS (sample preparation by mineral acid/microwave digestion and/or fusion)
- First sample:  
N$79/element
- Subsequent samples:  
N$24/first element
- Subsequent elements  
N$19.00/element

5.3.4 Industrial mineral evaluation
A variety of tests are available (e.g. particle size analysis, thermogravimetry, colour, brightness, clay mineral evaluation etc.). No specific charges are available at this time. Laboratory personnel time is charged per hour. Tempory on offer.

6. ECONOMIC GEOLOGY MAPS

6.1 MAPS

6.1.1 MINERAL MAP OF NAMIBIA (PROVISIONAL)  
(Scale 1:1 000 000; 2 sheets)  
N$200.00

6.1.2 1:1 mio Map of Kimberlite Distribution  
(Map plus geochemical plots)  
N$150.00

6.1.3 1:1 mio Aeromagnetic interpretation and mineral locations of Northwestern Namibia  
1:1 mio Aeromagnetic interpretation and mineral locations of Southern Namibia  
N$150.00

6.1.4 Dimension Stones in Namibia (1:2 000 000)  
N$120.00

6.1.5 CURRENT EPLs (Scale 1:2 000 000)  
N$143.00

6.1.6 Besshi-Type Mineralisation along the Matchless Belt (Scale 1:250 000)  
N$150.00

6.2 DIGITAL DATA

6.2.1 MINERAL MAP OF NAMIBIA (ESRI shapefiles and layerfiles)  
(N.B. Locations of mineral occurrences only partly verified)  
N$600.00

6.2.2 Diamondiferous Kimberlite Potential of Namibia  
(ESRI shapefiles and layerfiles)  
N$500.00

6.2.3 CD – Cement Source Materials  
reports/maps from previous exploration)  
N$200.00

6.2.4 Scanned archival exploration reports/maps from Earth Data Namibia Database  
as EPL packages; consult database for available information)  
per 10 files  
N$100.00
How to Purchase Publications/Data

The listed publications can be purchased from the Geological Survey of Namibia, Tel. 284-8111, Fax 24-9144.

**Postal address**
Private Bag 13297
WINDHOEK
NAMIBIA

**Street address**
1 Aviation Road
WINDHOEK
NAMIBIA

**Please note:** Payment, including postage, must accompany the order and is payable in U$, £ or SA Rand. For local purchases, payment is done in N$. All cheques and postal orders should be made payable to the Director, Geological Survey. **Order forms**, as well as a **Confidentiality and Copyright Agreement** to be signed for digital data, are included.

**POSTAL RATES:**
Postal rates depend on destination address and weight of the parcel and are determined by NAMPOST. You will be informed by e-mail

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### ORDER FORM
for Publications and Open File

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Address : ..................................................................................................................

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Telephone : ...........................................(W) ...................................................... (H)

Signature : .......................................................... Date : ..............................................
CONFIDENTIALITY AND COPYRIGHT AGREEMENT
FOR THE PURCHASE OF DIGITAL DATA

THIS CONTRACT made and entered into by GEOLOGICAL SURVEY OF NAMIBIA, a Directorate of the Ministry of Mines and Energy, Government of the Republic of Namibia.

having offices at : 1 Aviation Road, Windhoek, Namibia

hereinafter referred to as : 'GEOLOGICAL SURVEY' and

the purchaser/company : ........................................................................................................................................

having offices at : ........................................................................................................................................

........................................................................................................................................

Postal address : ........................................................................................................................................

........................................................................................................................................

Telephone number : ........................................................................................................................................

hereinafter referred to as : PURCHASER.

TITLE OF PROJECT : ........................................................................................................................................

APP. DURATION OF PROJECT (max. 1 year) : ........................................................................................................................................
NOW THIS AGREEMENT WITNESSETH THAT in consideration of the terms, conditions, and covenants hereinafter set forth, the parties do hereby agree as follows:

1. PURCHASER in signing this Agreement agrees that all digital data, delivered by GEOLOGICAL SURVEY shall be for the internal use of PURCHASER. Data products may be shown but NOT sold, traded, disposed of, transmitted to or otherwise made available to any individual(s), joint-venture(s) or partner company or companies excepting its parent company, any wholly-owned subsidiary, or affiliate. If any outside consultants are engaged to work on this data, they must be made aware of this agreement and requested to initial one copy.

2. Data obtained, whether in digital format, by scanning of hardcopy maps or any other reproduction processes, are licensed for use by PURCHASER only for the above mentioned project. If the duration of the project exceeds one year special permission must be obtained from the Director, GEOLOGICAL SURVEY.

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6. GEOLOGICAL SURVEY retains all copyrights to purchased survey data and maps. Presentation of these data at conferences or in research publications must acknowledge the copyright holder.

IN WITNESS WHEREOF, this agreement is executed as of the dates set forth below:

GEOLOGICAL SURVEY OF NAMIBIA

(Purchaser)

PURCHASE AGREED TO BY

(Director)

(Data copied by)

(Signed)

(Dated)