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Das Erbe in den geologischen Sammlungen Zambias

The Heritage of the Zambian Geological Collection

Von

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Abstract:

The Geological Survey Department was established in July 1950 and two years later, in January 1952, the Geological Survey became an independent department.

Its first Priority were Geological Mapping and Compilation of the Geological Map of Zambia. The department became increasingly involved in mineral prospecting largerly because at this time there was a great demand in the country for Industrial Minerals and Building Materials.

As time went by, the Geological Survey Department, assumed, the role of the only sole repository centre for all Geological, Mining and Mineral Information, related to Zambia, various sections within the Department acquire an overgrowing accumulation of Data in all the fields of Earth Sciences. There exists at present well over a half million data items on mining, Mineral, Geochemical, Geophysical, Petrological, X-ray, Chemical and Museum Information.

Information Storage, retrieval and manipulation have for many years been performed on the IBM 370/450 DOS computer. The use of this computer requires work to be submitted in batches punched by item into cards which can be read by the computer for storage on tapes:

Information retrieval and manipulation involved requests to be sent on diskettes to be read on special machines (diskettes readers).

However, facilities at the DPU have however proved unsuitable and inadequate for the Geological Survey Department. Aside from having to wait at the end of long queues, the DPU serves all Government Departments vital information have in the past been lost through damage from improper handing of GSD tapes.: These delays and damages together with the more important fact that the GSD's requirements are not sufficiently met since specialised functions required are not available at DPU provided strong reasons for t he GSD obtaining its own Computer System.

The Computers at the Geological Survey Department are primarily used in setting up mineral occurrence inventory coupled with the application of digital image processing to geological mapping and mineral exploration another important application is the Collection an analysis of seismic data.

The computer networks are thus divided into the following sections:

- **Technical Records Section**
- **Geophysicls**
- **Geochemistry**
- **Geological Mapping and Minerals Exploration**

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ZOBODAT - www.zobodat.at

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