

Evaluation and Structural Interpretation of Aeromagnetic Anomalies over Parts of Monguno and Environs, Northeastern Nigeria Using 3-D Euler Deconvolution

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Abstract. Evaluation and structural interpretation of aeromagnetic anomalies over parts of Monguno and environs, northeastern Nigeria was carried out using 3-D Euler deconvolution to determine the presence, distribution and depth of intrusives in the area. Analysis of maps and images provided the basis for qualitative as well as quantitative interpretations of the aeromagnetic data so as to obtain information on the presence, depth and distribution of intrusives in the area. Results from the 3-D Euler deconvolution of the aeromagnetic data showed predominantly geologic sources of magnetic anomalies for horizontal cylinder and pipe, spheres, sills and dykes, in order of decreasing magnitude, having structural indices (SI) of 2, 3 and 1 respectively. To a lesser degree are sources of magnetic anomalies for contact, having SI of 0, which may be interpreted to be deep seated faults, which have significantly affected the basement rocks surface configuration. The average depth to which magnetic intrusions occur within the sedimentary formations across all SI is less than 500m. Mineralization may be prevalent in the study area as indicated by the presence of these intrusives, some of which occur at favourable depths that allow for economic extraction.

Keywords: Aeromagnetic anomalies, Euler deconvolution, intrusives, Monguno and Chad Basin.

1 Introduction

The study area is bounded by latitudes $12^{\circ}00'N$ and $13^{\circ}00'N$; and longitudes $13^{\circ}00'E$ and $14^{\circ}00'E$, and has an area of about $12,100\text{km}^2$. The study area falls within the Borno Basin occupying the northeastern part of the country. Major towns within the area include Gudumbali, Marte, Masu, Gajiram and Monguno.

The application of the 3D Euler deconvolution process in this study is to generate maps that show the locations and the corresponding depth estimations of geologic sources of magnetic anomalies in a two-dimensional grid. Aeromagnetic data presented in grid form may be interpreted rapidly for source positions and depths by deconvolution using Euler's homogeneity relation (Reid et al., 1990).

This method is applicable to all geologic models and it is insensitive to magnetic remanence and geomagnetic inclination and declination. However, an initial assumption of the source type has to be made. A structural index that is dependent upon the potential source type is chosen (Thompson, 1982). The structural index and depth estimates combine to potentially identify and calculate depth estimates for a variety of geologic structures such as faults, magnetic contacts, dykes, sills, etc.

The expected results of the analyses will contribute to a better understanding of the general geology of the area and serve as a tool for hydrocarbon and mineral wildcard preliminary investigations.

2 Geological Setting

The Chad Basin lies within a vast area of Central and West Africa, containing marine and continental sediments of the Bima Sandstone, Gongila Formation, Fika Shale, Kerri Kerri and Chad Formations (Okosun, 2000). Its origin has been generally attributed to the rift system that developed in the early Cretaceous (Burke, 1976; Genik, 1992) when the African and South American lithospheric plates

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