

IMAGING GEOLOGICAL STRUCTURES OF THE RED SEA FROM THERMAL AND AEROMAGNETIC DATA

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There is a considerable interest in the geothermal resources in the Red Sea region due to the fact that the Red Sea represents an early stage in the break-up of the continental plates and their subsequent movement apart. In this paper, the aeromagnetic data compiled by GETECH along the Red Sea rift in terms is utilised to estimate the depth to the bottom of the magnetic layer from the Centroid method. One dimensional conductive heat flow method is also applied to compute the temperature distribution in the sub-surface within the study area. The paper reports the results obtained from thermal and spectral methods by defining the top and the base of the sedimentary beds within Red Sea area.

Heatflow, aeromagnetic, spectral, Red Sea

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