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EDGE DETECTION FROM MAGNETIC ANOMALY MAPS USING DERIVATIVE BASED ALGORITHMS

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Abstract. In this study, it is considered to analyze the horizontal locations of the dyke structures in vertical magnetic anomaly map of Yozgat - Sarıkaya region. To this end, the Tilt Angle method and the Automatic Gain Control method, which improves the structure boundaries, were primarily applied on the synthetic model data to determine the structure boundaries. The obtained results were analyzed and then applied on the field data. The horizontal locations of the potential dyke structures were analyzed and the images of these structures were improved.