Interpretation of Terrain Features by Self-Developed Red Relief IMAGE MAP

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We produce the Red Relief Image Maps (RRIMs) to aid terrain feature interpretations, especially in potential landside areas. RRIM is generated based on openness and slopes derived from a digital elevation model (DEM). In this study, we use software of Fortran and generic mapping tools (GMT) to produce the Self-Developed RRIMs. The related programs and theories are being constructed and are going to be completed. All kinds of terrain features will be well chosen and analyzed in the following tests. The purpose of this research is to develop a new visualization of topographic maps to provide subtle and useful terrain information and further bring contributions to the regions of disaster prevention, soil and water conservation, environmental monitoring, and resource exploration.

Keywords: RRIM, DEM, GMT