CREATING DIGITAL ELEVATION MODELS IN FIELD MEASUREMENT

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ABSTRACT

This study is about creating Digital Elevation Model (DEM) in field measurement. The study was carried out at Mosque of University Malaysia Sabah (UMS), Kota Kinabalu. The overall objective was to create the DEM by using the clinometer device. The immediate objectives were to measure the height of slope at UMS and to know the accuracy of clinometer in order to create DEM. There are 36 points which were marked at the hill and each of the points was measured by clinometer to determine the height of slope. Besides, the Global Positioning System (GPS) was using to know the location of the point. After the reading of slope is taken, the data in degree unit is converted into height to make a contour map by using Surfer 8.