

## ABSTRACT

### AN ACCURACY ASSESSMENT FOR GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS

The objective of this research is to compare the accuracy of the USGS topographic map, one type of GIS data, and the accuracy of a reliable orthoimage gathered from EROS Data Center and using RTK GPS to absolutely provide a standard for the aforementioned comparison. Coordinate values on the topographic map and the orthoimage were obtained by interpolation. It is found that the USGS topographic map is correct to within 19.859 feet, and the orthoimage is correct to within 13.766 feet. Therefore, the accuracy of the EROS Data Center orthoimage is higher than the accuracy of the USGS topographic map.

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August 2008