UPDATING GIS LAYERS USING RS IMAGES

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ABSTRACT: Current and future remote sensing programs such as Landsat, SPOT or radar images and space platforms (Earth Observing System) are based on a miscellaneous of imaging sensors that will provide multitemporal remote sensing data on a global scale. Visible, infrared and microwave images of high spatial and spectral resolution will eventually be available for all parts of the earth. Hereby, due to recent advances in earth observation system, GIS layers should be updated for different thematic applications using remotely sensed images. The aim of this study is to digitize spatial layers and implement database and then update it by the processing of RS data set. In our research, we initially digitized topographic map scale of 1:200.000, then Landsat ETM image for update of a land cover layer.