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FORESTRY CHANGE DETECTION WITH THEMATIC MAPPER DATA

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ABSTRACT

The Canada Centre for Remote Sensing (CCRS) has over the Past year successfully demonstrated the feasibility of integrating digital geographic information systems (GIS) with remote sensing systems. Information from the GIS such as forest cover area and species type are used as training information for the Image Analysis System. The Landsat Digital Image Analysis System (LDIAS) in CCRS. The resultant thematic maps are vectorized and sent digitally back to the GIS for informaion verification and update.

This paper describes a follow-on experiment to use multi-date, full scene thematic mapper data to detect changes in forested areas. Test sites in the vicinity of Cranbrook and Williams Lake of British Columbia are used. Truth areas are obtained using information extracted from the GIS. Raw and different band combinations of data between images sensed approximately one year apart are used as input to the classifier. Results are compared and discussed.