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Lusardi Creek/4s Ranch: Multispectral Change Detection Techniques Using Landsat Thematic Mapper Data and Airborne Data Acquisition and Registration (ADAR) Data

Jason Batchelor and Ross Martin
GIS Analysts
MSCP Division
County of San Diego, Department of Planning and Land Use
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Abstract:

This research investigates two types of multispectral remote sensing platforms: Airborne Data Acquisition and Registration (ADAR) and satellite based Landsat. Several multi-date change detection techniques are used and their application to biological monitoring evaluated. The results indicate that the scale and budget of any remote sensing biological monitoring research must dictate the type of platform used. Landsat appears to be useful for rough scale - broad area analysis of land use / land change, while ADAR is ideally suited for site specific quantitative analysis.

Keywords: Change Detection, Remote Sensing, Landsat, ADAR, Rare Plants, MSCP, County of San Diego

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