

LANDSCAPE ANALYSIS WITH MULTISPECTRAL AERIAL IMAGES IN THE BO WATERSHED, CENTRAL VIETNAM

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ABSTRACT

An aerial video shooting over Thua Tien Hue province, central Vietnam was implemented in April 2007, as a part of environmental and disaster management study by Kyoto University and Hue University of Agriculture. Three video devices covering high density visual (HDV), near infrared (NIR), and thermal infrared (TIR) ranges were mounted on a helicopter to capture multispectral information on land, water and vegetation. The images were processed into a multiscreen interface that enables both simultaneous views of the three bands, and overlaying of NIR or TIR over HDV movie using Flash media technology, which makes us easier to interpret the relationship between land cover and vegetation/thermal activities. Some interesting results include; visualized current of inflow water in the lagoon, difference of surface temperature by vegetation types, and comparison of thermal environment in the old citadel and the new city of Hue, which will be visually presented at the conference.