**Suggested topics: Remote Sensing Applications**

 ***Land Use/Land Cover***

**USING LANDSAT IMAGERY AND GIS TO DEVELOP VEGETATION STATUS MAP FOR PHU LOC DISTRICT, THUA THIEN HUE PROVINCE, VIETNAM**

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**Abstract:**

Today, GIS (Geographic Information System) and RS (Remote Sensing) has been used in many different fields. In particular, the application of GIS and RS for vegetation mapping is an effective and high accurate modern method. Research results of mapping vegetation for Phu Loc District, Thua Thien Hue province by analyzing Landsat images have been divided into 3 main types of covers: natural vegetation, planted and aquatic plants vegetation. Amongst natural vegetation has an area of ​​23366.16 hectares, accounting for 32.32%; planted vegetation cover with the area of 36469.28 hectares, accounting for 50.46%; aquatic vegetation covering an area of ​​12450.36 hectares, accounting for 17.22% of the total natural area. The mapping of current state of vegetation cover contributes substantially to the management, protection and reasonable exploitation of vegetation. Besides, the current state vegetation map is also an important resource to serve for the territorial planning rationally and sustainably.

**Keywords**: maps, vegetation, GIS, RS, Phu Loc district