Thesis Title	Applicaiton of Geographic Information System in Patam National Park Management Planning, Ubonrachatani Province.
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ABSTRACT

The present thesis is concerned with the application of Geographic Information System in Patam National Park Management Planning. The person who involve with the information output are National Park Management Planner.

Patam National Park located in Ubonrachatani Province in northeast of Thailand was selected as a case study, covering about 340 km^2. Geographic Information System technique of ARC/INFO and SPANS packages were used to evaluate the location of Park Management Zones. Six zones, including an Intensive Use Zone, an Outdoor Recreation Zone, a Primitive Zone, a Recovery Zone, a Special Use Zone, and Historic and Cultural Zone, based on the Thai Royal Forest Department's requirement are presented in this study. A Park Zoning Model was determind using the Logical Combination Method of Non-linear Combination and Factor Combinaiton. There was nine facters; Topology, Elevation, Geology, Soil Science, Hydrology, Access rutes, Forest and Landuse, Historic and Cultural Site, and Tourist factors.

The Information which are the output of this study are divided into graphic informations and non-graphic informations. Graphic informations consists of potential map for National Park Zoning, Topographic map, Slope map, Geological map, Soil map, Aceess Rute map, Hydrological map, Forest and Landuse map, Historic and Cultural map, and Tourist map. Non-graphic informations consist of information of Patam National Park and National Park Management Planning.