

STUDY ON EXPANSION OF NONG PRUE MUNICIPALITY BY APPLYING CHANGE DETECTION TECHNIQUE

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Abstract: Pattaya city is the center of economy and commerce which is urban sprawling. Nong Prue Municipality where connected with Pattaya city will directly effect by its urban sprawling. According to this issue, inspired the writer to study in the expansion of Nong Prue Municipality by applying the image differencing and integrated GIS which is used the Aerial Photograph in 2002 and Quickbird in 2005, and 2008. In order to classify land use which will divided to the major area as following: building area, agricultural area, abandoned area, water body. Lastly, the writer will research on the urban expansion accordingly changing of land use and settlement.

The study reveals that land use in Nong Prue Municipality during the study (2002, 2005, and 2008) exhibited building area has increased approximately 7.31 km² from 2002 by increasing from abandoned area approximately 1.79 km². While in 2008 was change from agricultural area approximately 4.74 km². In Khao Noy 2 has changed obvious. The settlement pattern of Nong Prue is planned occur later and concentrated along the roads such as Mab Yay Lia road, Route 3240 (Chi Ya Porn Wi Thee road), Porn Pra Pa Ni Mitr road, and Khoa Ta Lo road, these road is the main street of the municipality. And expansion of the main roads extending from the road in depth.