

REMOTE SENSING AND GIS FOR MONITORING THE EFFECT OF LANDCOVER ON URBAN INUNDATION IN CAN THO CITY, VIETNAM

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Abstract: The main objectives of this research are to study the landcover changes based on analysis multi temporal satellite images to monitor urban expansion and investigate the impact on flood inundation in Can Tho City, a center of Mekong Delta, Vietnam. The study revealed that the urban expansion rate has increased rapidly in recent years such as the rate of 1989 - 1997 was 8.1%; 1997 to 2002 was 22.6% and 2002 to 2007 was 24.3%. Besides this high rate urbanization area is facing inundation phenomenal during the rainy season. This research will show the important role of landcover changes such as filling up streams, increasing of impervious built-up surface with considering topography and hydrographic conditions in increased of flood inundation in Can Tho City.