

ABSTRACT

RESEARCH ON URBAN CHANGES IN A RELATIONSHIP WITH GEOGRAPHICAL FACTORS IN THE WESTERN REGION OF HANOI DURING THE PERIOD 2000-2014

Author Names: Dang Kinh Bac (), Nguyen Thi Ha Thanh,*

Office: Faculty of Geography, University of Science, Vietnam National University (Hanoi)

Address: No.334, Nguyen Trai road, Thanh Xuan district, Hanoi

Email: kinhbachus@gmail.com / calamityjane19@gmail.com

Phone: (+84) 973 076 069 / (+84) 912 624 802

Hanoi, the capital of Viet Nam, has experienced three times of administrative boundary expansion (1980, 1991 and 2008). It becomes one of the 17 largest capitals in the world since the last change, facing the rapid urbanization speed in either developed or under-developed areas. However in accordance with the urbanization, various problems are rising. The population density in Hanoi (2059 people/km²) likes fifty times as much as the standard number by United Nations (UN) and this number has concentrated in some west districts of Hanoi center. Urban population congestion has burdened on lack of settlement space, traffic jam and environmental pollution in central districts of Hanoi. In general, Hanoi likes an urban sprawl while in many sub-urban districts (Hoai Duc, Tu Liem, Thanh Tri, etc.) which several newly built settlement villas and blocks have been vacant. Based on this situation, this research has been conducted in order to identify the urbanization trend of Hanoi from 2000 to 2014 and find out the most effective element to these changes.

By regression multiple logistic methods, remote sensing and GIS, the research will obtain three following results: (1) presents the changing trends in construction land area in the period of 2000-2014; (2) shows the correlation between urban distribution and geographical factors; (3) and indicates the main factor affecting on transition of construction land in the western of Hanoi from 2000 to 2014, forecast to the year of 2018, in order to contribute for the planning and urban development of Hanoi capital.

Keywords: Regression multiple logistic, remote sensing, GIS, urban, western region of Hanoi

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