

**Urban land use classification and its
impact analysis on the green cover zone in
Chittagong city, Bangladesh.**

Urban land use plays a central role in various environmental planning and management processes in the present time information on urban land use is essential for geographers, planners and increasingly environmental scientists (Hu & Wang 2013).

Bangladesh has experienced dramatic changes in land use and coverage (LULCC) in recent years (Xu et al. 2020). Land use and land cover are dynamic and it have important ecological and socio-economic consequences. The paths and rate of change vary in space and time and relate to the relationship between human activities and biophysical conditions in an area (Rai et al. 2017).

Urban Landscape changes are mainly due to expansion of impenetrable surfaces next to human settlement (Yin et al.2005). Significant progress has been made over the last two decades, remote sensors with fine spatial and spectral resolution for accurate and detailed mapping of urban land cover and land use may become a reality (ESA 2006).

The city of Chittagong is the business hub in Bangladesh and also second largest city. It's significant is very much important than other cities. As in many other developing countries, cities in Bangladesh have experienced rapid urbanization, which has caused more and more land to take over and change land cover more quickly. In Bangladesh most forests are located in the eastern part of the Chittagong Division (Xu et al., 2020).

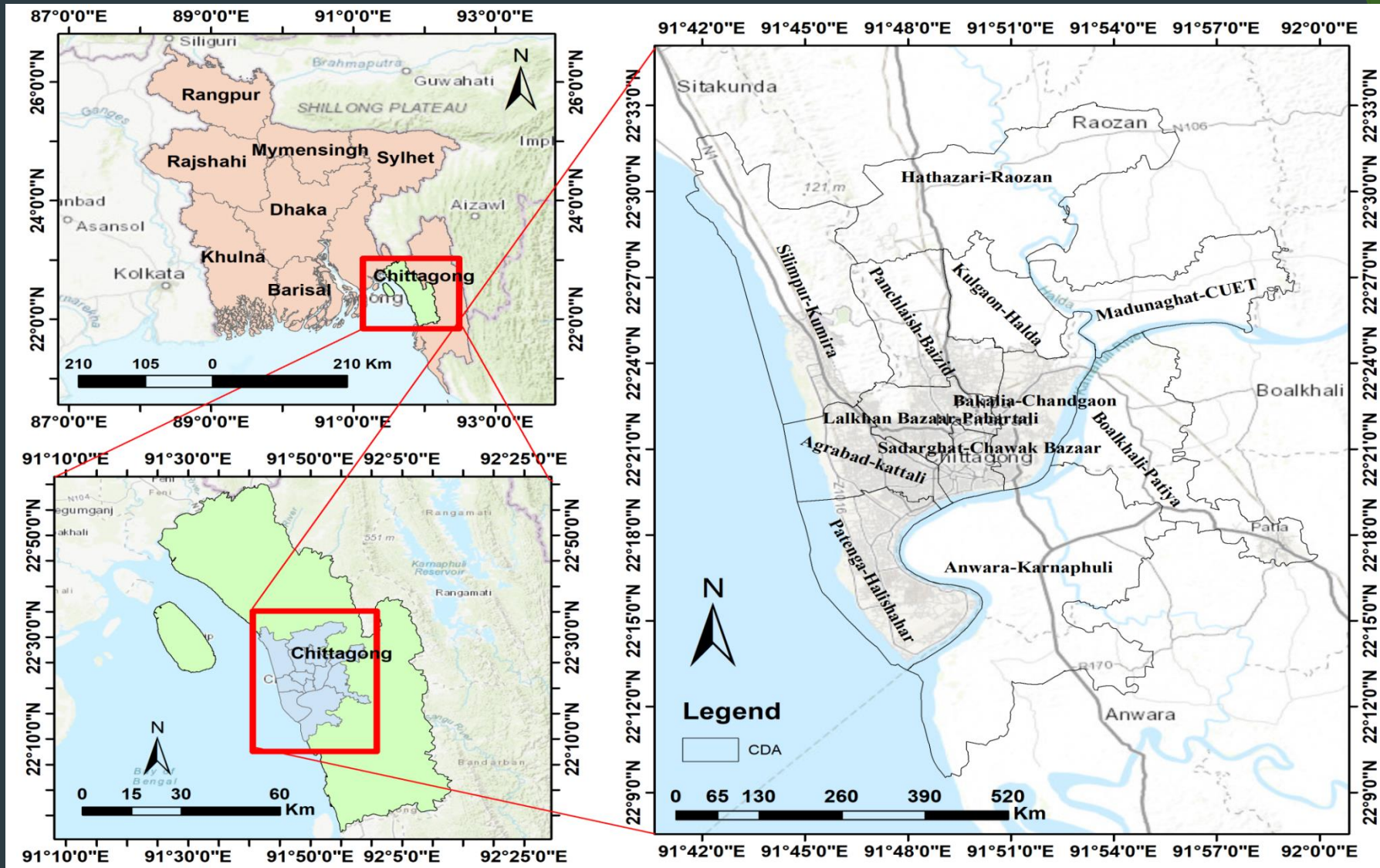


Figure 1: Location of the study area

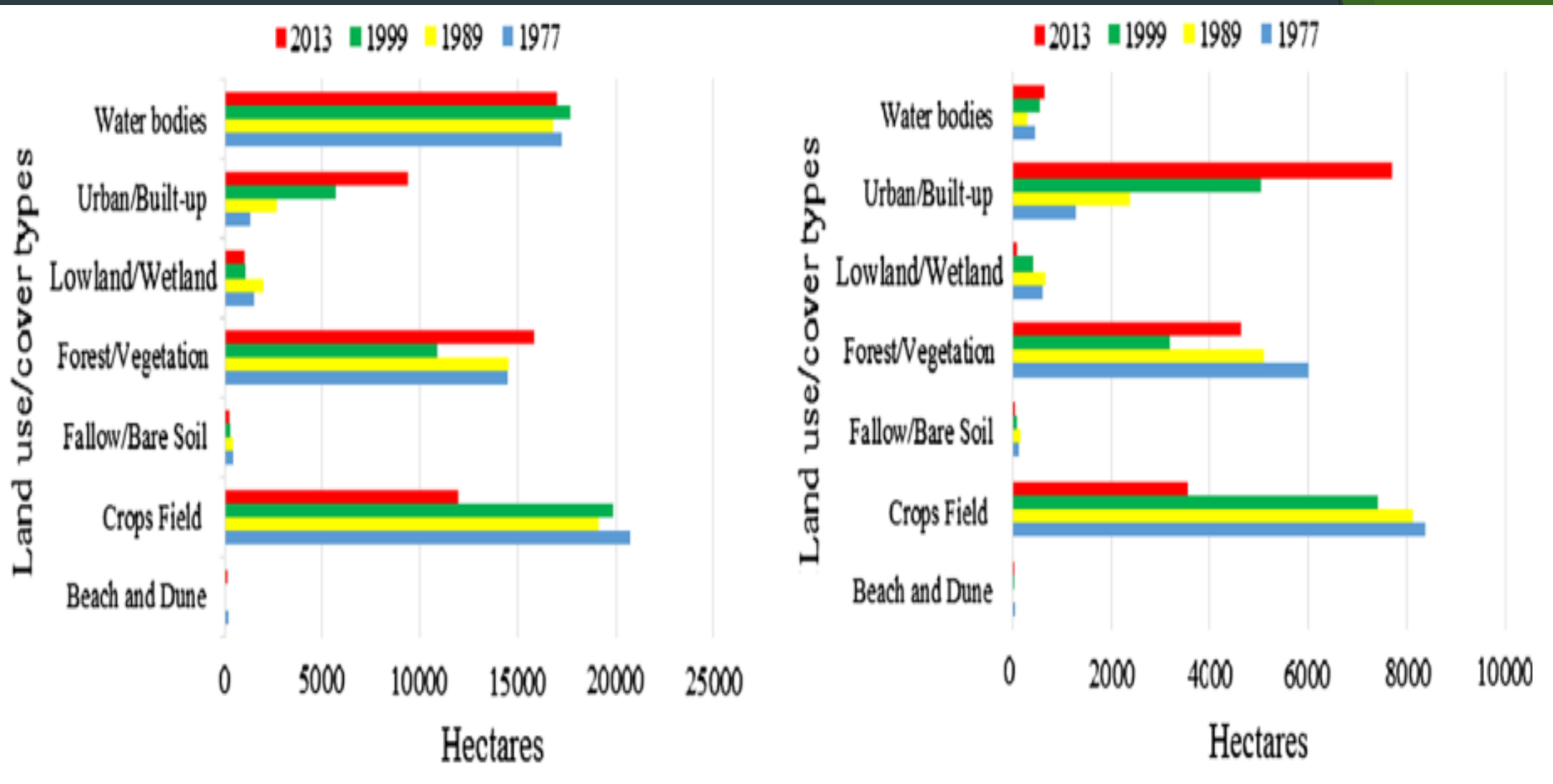


Figure 2: Categorical change in land use/land cover. (Left) entire study area, (right) city corporation area (Hassan and Nazem 2016).

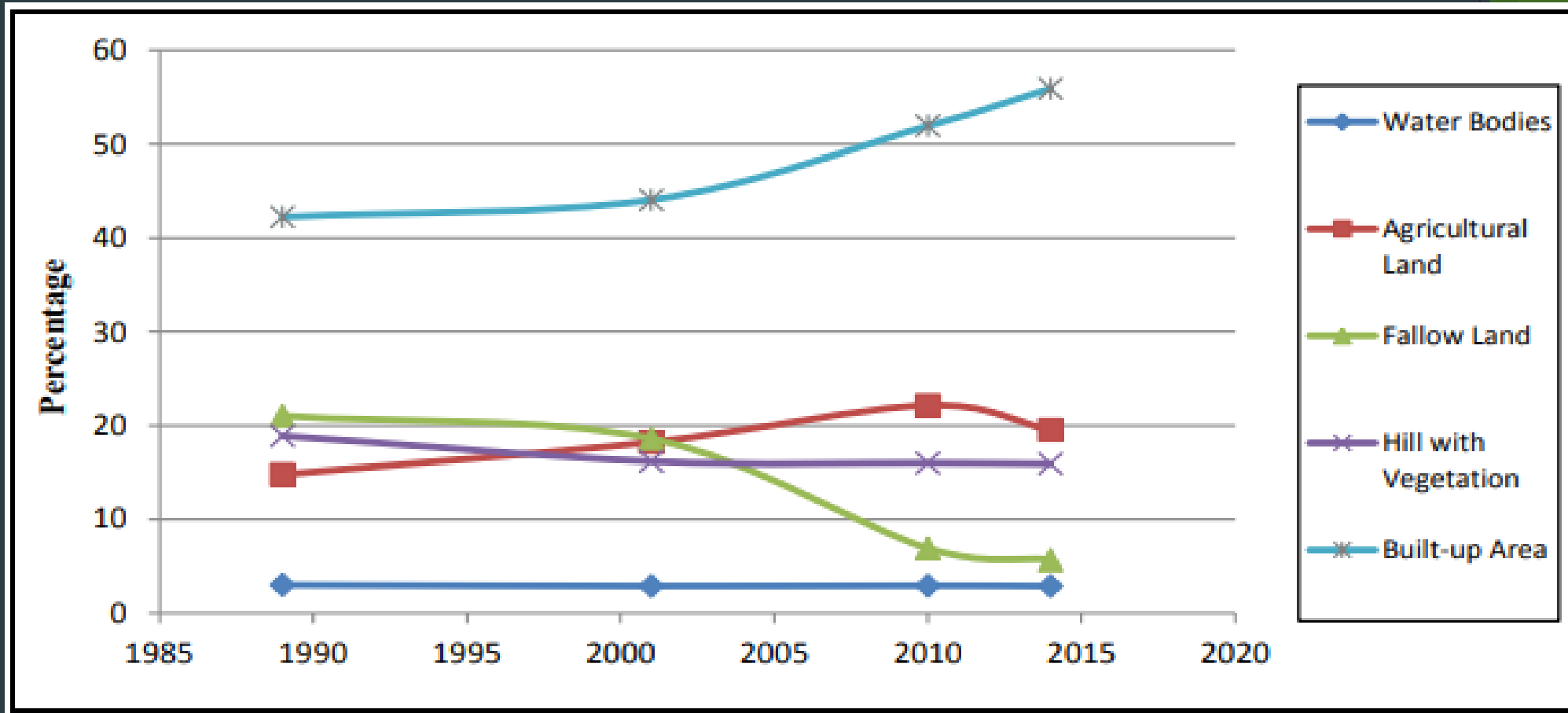


Figure 3 : Trend of Land use and Land cover Changes represented by percentage of area from 1989-2014 (Hussain et al. 2016)



The outcome of this research will enable the site identification of and its suitability for a sustainable urban environment in Chittagong city.



In the last two decades, the city has lost its aesthetic values and is facing very challenging problems with environmental damage



Due to the unplanned development of urban infrastructure, as well as the loss of its natural green cover.

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Thank you