

similar to the sieve mapping, i.e., the overlaying of tracing of maps on a light table to make comparisons and obtain an output map.

Map overlay has many applications. It can be used to study the changes in land use/land cover over two different periods in time and analyse the land transformations. For example, Fig. 6.8 depicts urban land use during 1974 and 2001. When the two maps overlaid, the changes in urban land use have been obtained (Fig. 6.9) and the urban sprawl is mapped during the given time period (Fig. 6.10). Similarly, overlay analysis is also useful in suitability analysis of the given land use for proposed land uses.

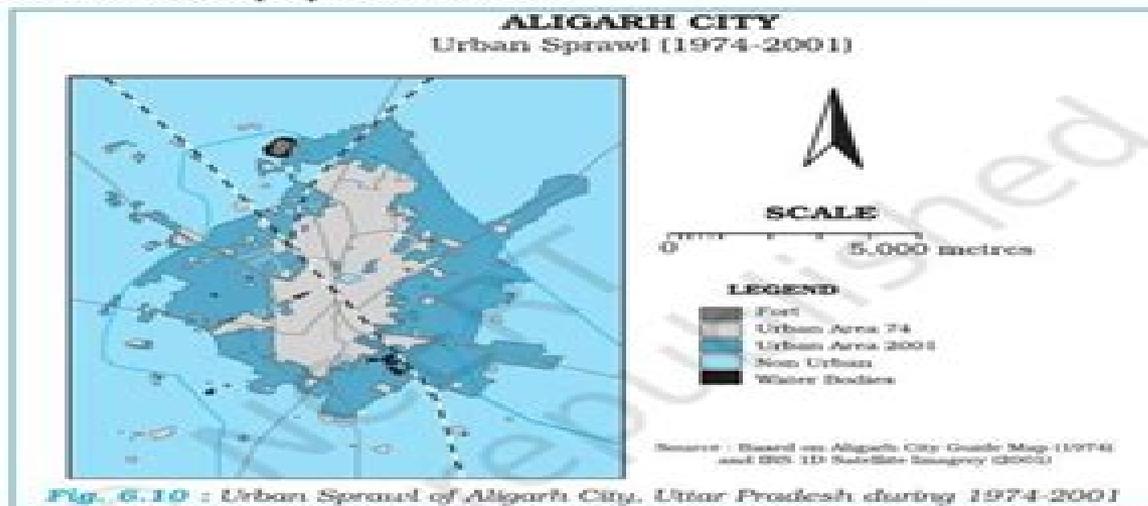


Fig. 6.10 : Urban Sprawl of Aligarh City, Uttar Pradesh during 1974-2001

Buffer Operation

Buffer operation is another important spatial analysis function in GIS. A buffer of a certain specified distance can be created along any point, line or area feature (Fig. 6.11). It is useful in locating the areas/population benefitted or denied of the facilities and services, such as hospitals, medical stores, post office, asphalt roads, regional parks, etc. Similarly, it can also be used to study the impact of point sources of air, noise or water pollution on human health and the size of the population so affected. This kind of analysis is called proximity analysis. The buffer operation will generate polygon feature types irrespective of geographic features and delineates spatial proximity. For example, numbers of household living within one-kilometre buffer from a chemical industrial unit are affected by industrial waste discharged from the unit.

Arc View/ArcGIS, Geomedia Quantum GIS free opensoftware and all other GIS softwares provide modules for buffer analysis along point, line and area features. For example, by using appropriate commands of either of the available software, one can create buffers of 2, 4, 6, 8 and 10 kilometres around the cities having a major hospital located. As a case study, point location of Saharanpur,

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William C. Matney



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