Cartograms and Themetic Mapping

Subject: Geography CBCS (HONS)

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Shubbre Chardren, Semester - II (Hons) Paper - C4T 3. Representation of point data: Loopleths 4. Representation of area data: Choropleth. (regraphical studies estails the passibility to compare and draw a wide variety of maps which illustrate the spatial distribution of certain element to be studied and taken into consideration. There are different technical ways & as to how we can't represent the spatial distribution. Two of the most important ways are toopleths and Charopleths. 1. ISOPLETHS The learn isopleth - 1000 + plethron; isos meaning same and plettion means measure tooplettes and equal value lines in the form of quantity, intensity and density. "I must be admitted that there is a considerable amoust of confusion concerning the multiplicity of terms which have been coined to denote variant of their geographical terms. For example, to cover all likes representing constant values on maps, the terms isoptetty, isaviltim, voline, vogram, isometric line have been used at various times. J.K. Wright (1944) proposed that isogram be used for all lines of quartery with two subdivisions - the

cometric lines (metrion meaning measurement) that represent a constant value or intensity pertaining to every point through which it passes and wopletts that represent a quartily or enumeration assumed to be constant, pertaining to certain areas through which it passes Isopleth maps are three - dimension triend surface maps. The spatial biend are indicated by the spacing of soplettos. Like contours, the closer the popletts, the sharper to the spatial variation on the steeper is the borizontal gradient and vice versa. Regionalisation can be done based on the spatial geometry of the sleepest zone The precision of drawing of poplets along with the resultant geometric pattern depends on the selected value intervals, the size and shape of the units for which statistics are available, the situation of the plotting points and the actual method of interpolation. Infact, drawing of isoplets needs the data in details, and any paulity of data will give a highly generalised on erroreous picture of Jack. If the distribution of population, the isoplets lose their significance. As such, this method is used for isotherry, isobar, isobyet maps because these Elements are reniformly distributed over the area. is based on the assumption that between any two 2.

points there is an uniform increase of values; hence the popleths are proportionally placed. tooplets maps may be effectively drawn with both the absolute and the indexed values of any kind of information that involves spatia variation CHOROPLETH MAPS Charaptets maps are techically quantita tive areal maps that show the spatial distribu tean of intersity or density of any element with the help of a system of graded shadings on colour, draws following the boundaries of the administrative with The basic principle is That the intensity of shading is directly proportional to the density of elements. The lighter shades, show lower densities and deeper or darker shades, generally follows the administrative boundaries. Decause the data pertains to that particular administrative boundary; the actual variation may not necessarily coviespond to these boundaries so the boundary of different shading may not necessarily converpond to these boundaries, so the boundary of different obey shading may not follow the exact line of variation. Moreover, the element may not be distributed uniformly over large areas; so some very small areas showing a higher 3.

density may be oblilerated by areas of moderate densety. This defect may, however be minimised by increasing the no. of shades and thereby decreasing the gradation of scale so that the interioral of variation becomes small. Further, little consideration to possible regarding unused are waste lands such as deserts, marshes, rugged and rocky areas, hills, mountains etc; they all disappear beneath the shading. Such lands have been called regative areas. It is a three-step process which envolves-1. Dreawing of workoheet with three columns (Area, Absolute value of an element and Density oblained by dividing absolute value by area) and nows equally equalling the administrative units. 2. Construction of charaptells table showing columns of density classes, shading system, administrative units Thoice of scale of densities may be based on arithmatical progression coils uniform class interval or geometrical progression with rapid increasing intervals, or quartile deviation/mean deviation/ standard deviation of the dataset. 3. Meteculous drawing of shades (lines/colours) following the administriative boundaries Choropletti maps are the basic tools of human geogra-phers; the presented the administrative writ, the more is the map precession. References : -1. Practical Geography - A Systematic Approach - Ashis Sarkar 2. Elements of Practical Geography - R.L. Singh