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Determining the Economic Value of Human Life on Contour and Landform Variations

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Abstract: The natural elements that influence the quality of human life and development as well as economic activities by drawing maps through the diversity of contour values and topography. With this contour line, various features of nature such as land, height, slope and landform structure, etc. can be specially highlighted. As a result of the economic development of human life, a characteristic of the development of the contour line can be highlighted by a clear understanding of the topography, the concentration of urban areas and the status of construction of rural settlements. This paper discusses the various geographical issues related to contour lines, such as the shape of the topography, the natural features of hills, mountains, plateaus, and plains, and also the drawing or model of an area. The height, slope, fertility and structure of these landforms highlight the diversity in the economic trends of the human life.

Keywords: Slope arrangement, geocentric development, agricultural ingredients, Socio economic concentration

1. Introduction

Land is a gift of nature and used as an essential element of man. Nature and human activities are particularly important by contour lines on this landform. Agriculture and other economic activities depend on the diversity of landforms along the contour line. The higher the value of this contour line, the higher the slope of the landform and the lower the deposition of other compounds. Again, if the value of the elevation line is low, it is expressed as plains and low lands of those regions. These plains and low lands are prone to human settlement as well as agricultural activity and economic development. In all these plains and low lands, the trend of economic development of human beings in the form of abundant water bodies and fertile lands is particularly noticeable. It can be said again that if the value of the contour line is intermediate, it is seen as a plateau. Therefore, it can be said that nature maintains the growth and development of the plant and animal world in its own way, which is easier in the plains. In this case, it can be said that the extraction - based, land - centered and development oriented activities that are achieved through highlands, plains and plateaus, the amount is not seen in the same form everywhere, that is, somewhere more, somewhere less. The features of the landscape along the contour line of this region provide an importance to the analysis of human economic activity with the help of Contour with Barrier map, Slope map, Flow direction map and latest Basin map.

2. Literature Survey

To define agriculture Prof. E. W Zimmerman said: "Agriculture covers those productive efforts by which man settled on land, seeks to make use of, and, if possible, accelerate and improve upon the natural genetic or growth processes of plant and animal life, to the end that these processes will yield the vegetable and animals product needed or wanted by man."

Agriculture, the primary form of economic activity included not only cultivation but livestock ranching, dairy, forestry, lumbering, irrigation and host of other activities.

3. Study Area and Problem Definition

Land diversity and contour lines are particularly important in improving the quality of human life. Contour lines and landforms on the Alipurduar district are discussed. The first thing that comes to mind when discussing the problems of this region is that the value of the contour line is not the same everywhere. As a result, the slope of the landform is more or less somewhere. Problems in the region include water flow, land formation, agriculture, human settlement and other economic activities. Again, different conditions of natural weather and cultural aspects have to face different problems along with the change in the value of landform and contour line.

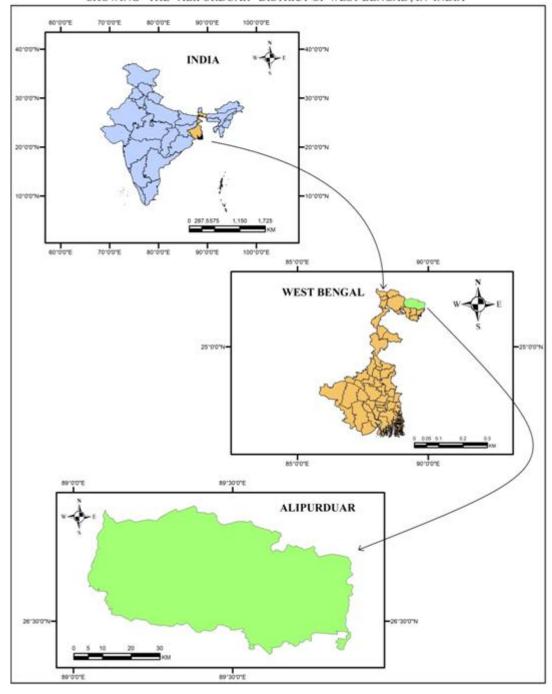
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LOCATION MAP OF THE STUDY AREA

SHOWING THE ALIPURDUAR DISTRICT OF WEST BENGAL, IN INDIA

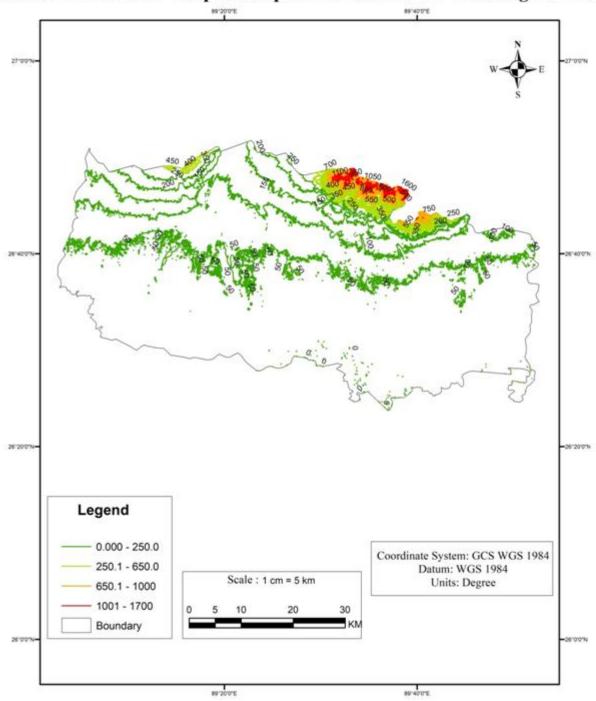


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Contour with barrier map of Alipurduar district of Westbengal in India



Contour with Barrier map:

The Contour with Barrier map prevents the rapid flow of water and various particles of soil flowing down the land slope of the region. The main goal of this Contour with Barrier map area is to reduce the speed of the water and reduce the amount of corrosive energy. Understanding this Alipurduar district map shows Contour with Barrier highest value 1600 which is publish in dark red color. It exists only

on the north side of the top of the map. It can be said again that terrace farming is more likely to occur in areas with the highest value due to the steepness of the land slope. By which people live here and the weather and temperature is always low. Again, for the plains of the lowest value areas, the fertile and sandy areas in agriculture are widely used for the financial development of human life.

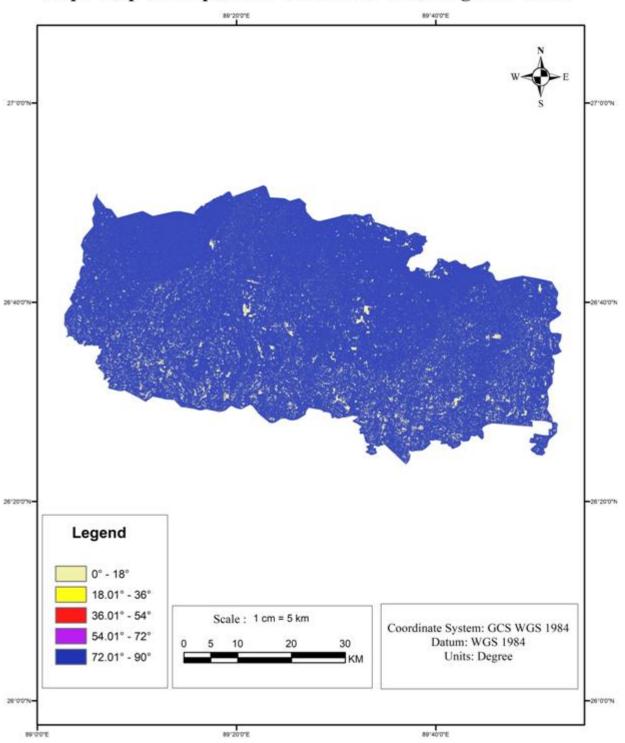
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Slope map of Alipurduar district of Westbengal in India



Slope map:

The various elements of human life are influenced by different aspects of landforms, one of which is the land slope. To make this slope map of Alipurduar district is first divided by five colors. Its values are 0° - 18' (light gray), 18.01° - 36' (yellow), 36.01° - 54' (red), 54.01° - 72' (purple)

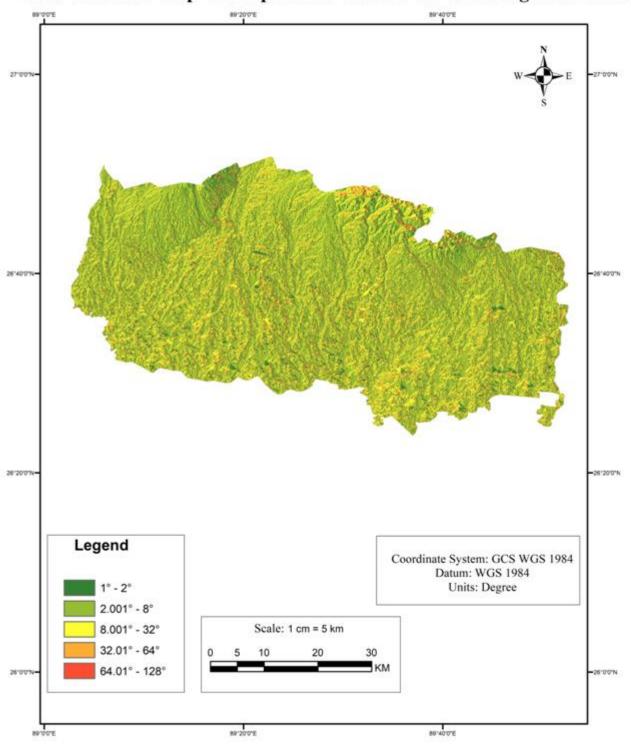
and 72.01° - 90° (dark blue). The Coordinate system for this map is GCS WGS 1984 and the scale is 1 cm to 5 km. The highest value of the region can be seen everywhere on the map and lowest value can be observed scattered everywhere on the bottom of the map.

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Flow direction map of Alipurduar district of Westbengal in India



Flow direction map:

Flow direction map is specifically related to topography and contour value. A perusal of the map of the region for this shows dark green which can be observed towards the north-west and its value is 1 - 2. Again the value of the highest flow direction map value area is 64.01 - 128 and which can be seen in the highlands in the north of the map. By this flow direction map, the direction and speed of water flow along

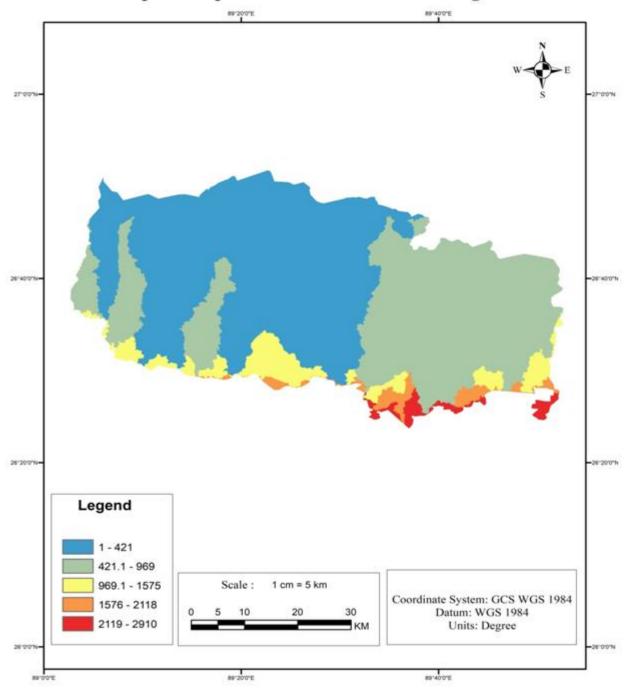
with the information related to the landforms can be analyzed. It can also be said that where the value of contour value is highest, the speed of water flow, landslides and removal of various substances from landforms are very fast. For this reason, it is not an ideal environment for the settlement and moreover, the natural environment is facing a lot of adversities here.

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Basin map of Alipurduar district of Westbengal in India



Basin map:

A basin is a depression in a region that can in many cases be like the middle bowl of an area within the Earth's surface and in which water accumulates in the middle or in the lowest part of the field. In hilly areas, such landforms can be formed if the amount of water in the middle of the steep slope is high. Looking at the basin map of this region, it can be seen that dark blue is the color and the basin value (1-421) is the lowest, Which starts at the north and northwest sides of the map, and continues to the southwest and south. As a result contour value is high, there is lack of fertile soil for farming. Again, the highest basin value is located in the southeast under the map, which is revealed by red color. This highest value region is considered low land because of its low contour value. Where water storage as well as flood

inundation and silt storage is high as well as agriculture can be more in the development of human life.

4. Methodology / Approach

Contour and topographical variations to determine the quality of human life in Alipurduar district are specially discussed. For this first of all the help of various books and publications is taken and the subject is presented by GIS application specially in map making. These maps are marked by different colors. Datum value of which is WGS 1984 and unit is expressed by degrees. Scale for drawing maps of this region is 1 cm to 5 km.

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5. Results and Discussion

Contour and landscape can be used to conceive of the evolutionary state of human life in any place. The three special needs of people are food, clothing and shelter. Its three requirement are more effective in the plains than in the highlands. Moreover, the development process is always hindered due to the inaccessible and hostile environment of the hilly areas. Compared to that, it is especially useful for building soil and settlement on flat terrain with low contour value. In addition, agriculture, other social and cultural development needs more on the plains.

6. Conclusion

The proper use of human resources is essential for the development of the earth's environment. The level of development of these resources is particularly dependent on the needs of the population. It can therefore be said that the contour and the diversity of landforms specifically hinder the development of resources. Again the favorable and unfavorable weather conditions are affected by the elevation and lowland of the landforms. Due to which the variety of human life can be observed through the variety of flood, drought and other natural disasters.

7. Future Scope

The systematic aspect of the future plans which are taken to improve the quality of human life in this region is not the same everywhere due to the differences in climate and topography. This means that because of the highest altitude of 1600 meters Contour with Barrier value, the possibility of inaccessible natural environment is the highest. Due to the problem of landslides at the highest point of the region, the areas where terrace farming is practiced are causing losses to the farmers. Sometimes, the area has steep slopes with horticultural farming such as tea production. Since is a cash crop, the demand for it is foreign markets is high. So the farmers here need to pay more attention to ten production. It can be said again that the natural environment and climate of the highest place (1600mt.) is ideal for garden agriculture. Other horticultural activities such as coffee, rubber and palm oil do not get much attention on the region. If the standard of living of the people of the highest place is to be improved, then besides tea, varieties of horticultural agriculture such as coffee, rubber and palm oil are of great importance. It can be said that the standard of human living in the palms is different compared to the hilly or highest places. The value of Contour with Barrier here is "0" which is located at the bottom of the map. Along with the climate and rainfall here, the slope of the landform is low, so the potential for agriculture is very high. Moreover, if there is social and cultural development through agriculture, it is now more active than before. Again, due to flooding during the monsoon season, the rules and timings of cultivation have to be changed and special importance should be given to the region on social welfare issues.

References

- Kanti, Tusar., "Economic Geography". Dey street, Kolkata, 2011.
- [2] Jana, Sanket Kumar., "Bhu-Vidya", Paschim Medinipur: Maiti Publication, 2005.
- [3] Lahiri, Dipankar., "SamsadBhu bijnanKosh" Encyclopaedic Dictionary of Geography.
- [4] Pal, ArunSankar, "Applied Bhuparichay", Sib-Gopal Publishing House, 2005.
- [5] Shel, Ajit Kumar., "Uicha Madhyamik Byabaharik Bhugol "The Himalayan Books, 2005.
- [6] Majumdar, Mousam., and Adak, S., and Majumdar, S., "Bhuparichay", Midnapore: Tapati Publishing, 2001.
- [7] Singh, R. L., "Elements of Practical Geography", New Delhi: Kalayani Publishers, 1993.
- [8] Rauf, Kazi., and Mohamad, KaziAbul., "Applied and Practical Geography", Dhaka: Sajan Books., 2002.
- [9] Lillesand, T. M., and Kiefer, R. W.1987, Remote Sensing and Image Interpretation, 2nded; , John Wiley and Sons, New York.
- [10] Singh, Savindra., "GEOMORPHOLOGY" Allahabad: PrayagPustakBhawan, 2013.
- [11] Sarkar, Ashis., " Practical Geography ", Orient Longman, 1997.
- [12] Dury, G. H. Map Interpretation, Pitman Publishing, London, 1972.
- [13] Banerjee, Tarun and Shel, Ajit Kumar, " SnatakByabaharikBhugol ", Kolkata: Chhaya Publishing, 2003.

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