

# Morphometric Analysis and Prioritization of Sub Watersheds of Umar Nala Watershed, Madhya Pradesh Using Geospatial Technique

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## ABSTRACT

Morphometric analysis and thereby prioritization of watersheds have gained significant importance in land and water resources management. In this study an attempt has been made to prioritize sub-watersheds based on morphometric analysis using geospatial techniques in Umar Nala watershed of Narsinghpur district, of Madhya Pradesh. Morphometric parameters, considered for the present study are stream frequency ( $S_f$ ), drainage density ( $D_d$ ), texture ratio ( $T_r$ ), elongation ratio ( $R_e$ ), circulatory ratio ( $R_c$ ), form factor ( $R_f$ ), bifurcation ratio ( $R_b$ ) and relief ratio ( $R_{rl}$ ). These parameters were estimated for each sub-watershed then ranks were assigned for prioritization of sub-watersheds on the basis of value/ratio relationship to arrive at a computed value for final ranking of the sub-watersheds. On the basis of morphometric parameters determined in GIS environment and the applying standard formulae prioritization among seventeen sub watersheds of Umar Nala, sub watershed no 10 is on top priority among seventeen sub watersheds for further soil and water conservations measures to be taken in the watershed.

## Highlights

- This study conducted in Umar Nala watershed of Narsinghpur, district of Madhya Pradesh, India to prioritize sub-watersheds based on morphometric analysis using geospatial techniques.
- In this study, we employed seventeen sub watersheds of Umar Nala, and found which watershed urgently requires soil and water conservation measures.

**Keywords:** GIS, Morphometric Analysis, Prioritization, Watershed.

Population of our country is increasing over the years as a result pressure on natural resources also increasing (Sharma *et al.* 2016). So, it necessitates management and development of land and water resources on watershed basis (Sharma *et al.* 2008; Sharma *et al.* 2010). Watershed is a hydrological unit from which precipitation water flows to a common outlet or single point into small and large streams, rivers or oceans (Sharma *et al.* 2011; Patil *et al.* 2016; Rao, 2019; Rao *et al.* 2019). Geospatial technique has emerged as powerful tool to manage watersheds (Sharma *et al.* 2013; Patle and Awasthi, 2019a; Patle and Awasthi 2019b).

Quantitative description of any watershed is

an aspect which is important to characterize any watershed, which can be made easily by morphometric analysis of the watershed (Strahler 1964). Linear, aerial and relief aspects of watershed require measurement of watershed area, its perimeter, stream number, stream length to make morphometric analysis (Sharma and Seth 2010). Strahler (1964), Miller (1958), Smith (1950), Horton (1932, 1945), and others carried out pioneering work on the drainage basin morphometry.

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# Morphometric Analysis And Prioritization Of Watersheds For

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**Proceedings of International Conference on Advances in Materials, Modeling, and Analysis for Sustainable and Resilient Infrastructure Volume 2** K. M. Mini, K. Muthukkumaran, Sanjay Kumar Shukla, K. S. Kasiviswanathan, 2025-12-21

This book presents select proceedings of the International Conference on Advances in Materials Modeling and Analysis for Sustainable and Resilient Infrastructure AMMA SRI 25 held from January 9 to 11 at Coimbatore Tamil Nadu India It addresses the challenges of sustainability and resilience through innovative and region specific solutions bringing together experts to share ideas highlight best practices and create lasting professional contacts Key topics include sustainable construction materials and practices advanced modeling techniques for resilient infrastructure structural health monitoring and climate change Innovative methods for enhancing the durability and energy efficiency of buildings are also discussed The book explores the impact of sustainable practices on geomechanics and modeling sustainable geotechnique traffic modeling sustainable pavement materials and design intelligent transportation systems sustainable water and wastewater treatment disaster management and geospatial applications This book serves as a comprehensive reference for anyone interested in the latest advancements in materials modeling and analysis for sustainable and resilient infrastructure It offers valuable insights for researchers students and professionals dedicated to advancing this field Applied

Morphometry and Watershed Management Using RS, GIS and Multivariate Statistics(Case Studies) Yahya Farhan, 2017-11-24 Applied Morphometry and Watershed Management book is designed to introduce the recent developments related to applied morphometric studies of drainage basins Applications of drainage basin morphometric analysis cover several topics of research such as 1 Prioritization of sub watersheds for soil and water conservation 2 Surface water harvesting 3 Assessment of groundwater potential and predicting of groundwater movement 4 Geo hazard assessment i e soil erosion and sediment yield modeling landslide susceptibility mapping flashflood hazard and flood management 5 The impact of Quaternary tectonics on structure and drainage network distortions **Drainage Basin Dynamics** Pravat Kumar Shit, Biswajit Bera, Aznarul Islam, Sandipan Ghosh, Gouri Sankar Bhunia, 2022-01-01

This volume provides a versatile introduction to the study of drainage basin evolution morphology drainage basin hydrology and sedimentology human interference natural and anthropogenic hazards and various management techniques This book offers the responsible factors of sediment yield and their absolute and specific growth and rate of delivery through tributaries to the main streams Rivers are important geomorphic agents which reflect an amazing variety of form and behaviour showing the wide range of natural environment in which they are originated The drainage system evolution and spatial network development within the dynamic nature are being discussed and how they are adjusted in the geomorphic time scale over the millions of years This book shows how drainage systems function and react to change and why this thoughtful is required for flourishing integrated basin management In tropical and sub tropical countries population pressures as well as different developmental projects are being

executed on the drainage basin without proper planning Today scientists consider drainage basin as an administrative unit during implementation of regional projects In this context this book will carry a bench mark for scholars and young scientists

*Recent Advances in Civil Engineering* Krishna R. Reddy,P. T. Ravichandran,R. Ayothiraman,Anil Joseph,2024-01-30 This book presents the select proceedings of International Conference on Civil Engineering Innovative Development in Engineering Advances ICC IDEA 2023 This book covers the latest research in the areas of geotechnical engineering geomatics geosciences remote sensing geographical information systems surveying and geo spatial engineering environmental engineering and many more The book is useful for researchers and professionals in civil engineering

*Remotely Sensed Rivers in the Age of Anthropocene* Subodh Chandra Pal,Uday Chatterjee,Martiw Diah Setiawati,Dipankar Ruidas,2025-05-02 This book offers a geospatial technology approach to data mining techniques data analysis modeling risk assessment and visualization as well as management strategies in many elements of river basin risks This book investigates cutting edge techniques based on open source software and R statistical programming Google Earth Engine and modeling in modern artificial intelligence techniques with a particular emphasis on recent trends in data mining techniques and robust modeling in river basin management It includes significant issues such as geomorphological hazards climate change catastrophic natural disasters meteorological and agricultural drought monitoring landslides or mudslides mudflow floods and flash floods soil erosion and land degradation This book s contents are of interest to earth and environmental scientists professionals and policymakers The book examines spatial modeling risk evaluation of a drainage basin in the domain of environmental and social issues management and associated research Due to poorly understood climate change and unclear man made activity there are several problems and uncertainties in studying earth s environmental circumstances making it exceedingly difficult to analyze and make knowledgeable judgments Many difficulties on the other hand are caused by mismanagement of present and future land water and forestry resources It is also critical to use new technology and methods to improve and reinforce environmental protection The link between the three devices namely remote sensing RS GIS and the R programming interface is acknowledged in this respect Land conservation measures soil and water quality control and new rules should all rely on correct measurements and predictions and three technologies RS GIS and R and open access quantitative forecasting methodologies help with climate change and better management regulations Nonetheless this book serves as a feasible framework for studying current breakthroughs in geospatial artificial intelligence technologies and their relevance to the planet s environmental and socioeconomic concerns in a single volume

**Flood Risk Management** Brototi Biswas,Bhagwan Balasaheb Ghute,2024-05-26 This book examines the nature of flood in different landscapes and the various factors that contribute to flooding in different areas It identifies flood risk zones in different terrain types and provides valuable insights into the anthropogenic geographical hydro geological and geomorphological aspects of flood prone areas to achieve sustainable risk management The book also

explores the impact of avalanches global warming and flash floods in different settings where such types of flooding have become more common In addition the volume provides case studies to evaluate the impact of flooding in both natural and man made environments To better understand and manage floods the book combines advanced geospatial tools and techniques with indigenous knowledge Using machine learning and multiple criteria decision analysis the book provides an amalgamation of technology and indigenous knowledge to assess flood susceptibility The book also includes strategies to manage flood risks and case studies that demonstrate best practices in flood risk management The volume is a valuable resource for researchers students and policy makers to understand the causes of floods and their socio economic impact in different areas

**Journal of Soil and Water Conservation in India** ,2004 **Indian Science Abstracts** ,2011-05  
**Asian Studies** ,2006 *The Indian Journal of Agricultural Sciences* ,2014 *Indian Journal of Soil Conservation* ,2001  
**NEERI Annual Report** National Environmental Engineering Research Institute,2007 **GIS India** ,2002 **Use and Misuse of Land and Water Resources** Abha Lakshmi Singh,2006 In Indian context 2018, □□□□□□ □□□□ □□□□

**Calcutta Geographical Review** ,2005 **Prioritization, Morphometric and Hypsometric Analysis of Subwatersheds** Ashokkumar Naralasetty, Maheshwara Babu B., Meerabai K. P., 2014-08-07 Morphometry deals with the management and mathematical analysis of the configuration of the earth s surface and of the slopes and dimensions of its landforms It is used to determine the geometry of the watershed especially among its stream network Morphometry gives a little idea of erodibility of soil Watershed characteristics play a vital role on the hydrologic performance of watersheds Hence a number of parameters which signify the watershed characteristics are evaluated from the topographical maps Various morphometric parameters are computed to evaluate the geomorphic stage of the basin which is the indication of intensity of erosion from the basin In the case of shortage of hydrologic data morphometric parameters play an important role in predicting the response of the catchment Hypsometric analysis aims at developing a relationship between horizontal cross section area of the subwatershed and its elevation in a dimensionless form For determination of hydrologic variables such as precipitation evaporation etc with respect to the altitude is useful by the hypsometric curve **Workshop, Remote Sensing and GIS Applications in Water Resources Engineering, 29-31 August 2001, Lucknow** ,2001

**Dissertation Abstracts International** ,2000 Quantitative Morphometric Analysis of a Watershed Kuldeep Pareta, Upasana Pareta, 2012-03 The prime purpose of this book is to present the detail morphometric characteristics of a watershed based on digital terrain model and GIS A short glance is presented on the geology and geomorphology of Karawan watershed of Yamuna basin India The basic concept of Indian watershed codification system is also presented in the book Extensive morphometric parameters i e drainage network 16 basin geometry 28 drainage texture analysis 7 and relief characterizes 34 are carried out based on digital analysis The parameters are discussed in detail and values are obtained using ASTER DEM data and ArcGIS 10 software The book is useful for the instructors research scholars and students of

geomorphology for a deeper study in the field of drainage basin analysis

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