

Hydrological Persistence Characteristics of Floods and Droughts of the Surma-Khusiyara River System using Floods Duration Curves and Drought Duration Curves

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Abstract: The Surma - Kushiya river basin is significant and unique in Bangladesh concerning the diversified climate. Severe weather events like floods and droughts frequently occur here. The flood duration curve (FDC) and drought duration curve (DDC) were employed in this study to evaluate the hydrological characteristics of floods and droughts for stream flow at the outflows of the Surma and Kushiya basins, respectively, in Sylhet and Sherpur. FDC and DDC depict the extreme (lowest or highest) average of a hydrological quantity (precipitation or stream flow) over many periods with varying probabilities of occurrence. Duration curves are generated only for stream flow. The curves show the yearly variation of the annual maximum (FDC) and minimum (DDC) of moving averages of streamflow across various time intervals. This indicates that, in comparison to its mean stream flow, the Surma River experiences a greater seasonal variation in extreme stream flow for both high and low discharge. It has been determined that persistence structures exhibit several distinctive characteristics that can be used in flood control systems, operation reservoirs to mitigate drought, and implications for the development of policies for managing water resources during droughts and floods.

1.0 Introduction

Bangladesh is an agricultural country. One of the main causes of it is that Bangladesh is a land of rivers. Both big and Small River has crisscrossed the whole of Bangladesh. The Surma and Kushiya are the major rivers in Bangladesh situated in the northeastern part of the country. The Surma and the Kushiya Rivers flow long distances through Bangladesh. The length of the Kushiya River is about 248 km and the Surma River is about 360 km. Surma River also drains one of the world's heaviest rainfall areas e.g. about 1,000 cm at Cherapunji, Meghalaya, India. Flooding occurs every year in this region, which has a great influence on the way of living of the local population, on the natural resources, and on the economic stability of the region. Floods and Droughts have enormous social, environmental, and economic consequences, which continue to present dynamic challenges worldwide. It badly needs of understanding the characteristics of these climate extremes for prediction, prevention, preparedness, mitigation, and risk management.

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**Leung-Ku Stephen Lau, Ryland L.
Moore, Patricia Y. Hirakawa**



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Hydrologic Frequency Modeling V.P. Singh, 2012-12-06 Floods constitute a persistent and serious problem throughout the United States and many other parts of the world. They are responsible for losses amounting to billions of dollars and scores of deaths annually. Virtually all parts of the nation coastal mountainous and rural are affected by them. Two aspects of the problem of flooding that have long been topics of scientific inquiry are flood frequency and risk analyses. Many new even improved techniques have recently been developed for performing these analyses. Nevertheless actual experience points out that the frequency of say a 100 year flood in lieu of being encountered on the average once in one hundred years may be as little as once in 25 years. It is therefore appropriate to pause and ask where we are where we are going and where we ought to be going with regard to the technology of flood frequency and risk analyses. One way to address these questions is to provide a forum where people from all quarters of the world can assemble discuss and share their experience and expertise pertaining to flood frequency and risk analyses. This is what constituted the motivation for organizing the International Symposium on Flood Frequency and Risk Analyses held May 14-17 1986 at Louisiana State University Baton Rouge Louisiana.

Selected Water Resources Abstracts, 1991 *Proceedings: Symposium on Statistical Hydrology Held at Tucson, Arizona, August 31 - September 2, 1971*, 1974 The Symposium on Statistical Hydrology has been developed to facilitate discussions between hydrologists and statisticians on problems in hydrology and the application of probabilistic and statistical methodologies to their investigation and solution.

System-Theoretical Modelling in Surface Water Hydrology Alexander Lattermann, 2012-12-06 Modelling of hydrological rainfall runoff processes is facilitated by the application of the systemtheoretical approach to linear nonlinear and stochastic models. To this purpose the variables involved in methods for determining areal precipitation and baseflow separation are discussed. The convolution theorem in the theory of linear systems and the mathematical transform technique Laplace Z transformation are used to identify characteristics of the watershed and simulate hydrological processes. To support the calculation of model output functions computer programs are included in the text. This volume is suitable as a text for hydrology courses at universities or engineering academies.

Drought and Drought Mitigation in Europe Jürgen V. Vogt, Francesca Somma, 2013-04-17 Drought is one of the major natural hazards resulting in significant economic social and environmental costs. In Europe water shortage is an important problem in many regions. However despite the increasing awareness of this hazard there is no European drought policy and institutional frameworks to cope with drought situations are only weakly developed. This book is dedicated to furthering our understanding of the drought problem in Europe and to discussing policy and management options to mitigate its impacts. It covers aspects from the detection of water stress to the planning of mitigation strategies. The contributions are written by recognised experts in their field and represent a unique collection of papers on the topic.

Audience The book will be of benefit to scientists managers and politicians involved in problems related to water.

management risk assessment and spatial planning Students in Earth Sciences especially in geography climatology hydrology and agriculture will find useful material in this collection of papers *Book catalog of the Library and Information Services Division Environmental Science Information Center. Library and Information Services Division,1977* **Book Catalog of the Library and Information Services Division: Shelf list catalog** Environmental Science Information Center. Library and Information Services Division,1977 *Drought in the Great Plains* Richard O. Hoffman,1980 Pioneering Works on Extreme Value Theory Nobuaki Hoshino,Shuhei Mano,Takaaki Shimura,2021-06-04 This book presents the state of the art in extreme value theory with a collection of articles related to a seminal paper on the bivariate extreme value distribution written by Professor Masaaki Sibuya in 1960 demonstrating various developments of the original idea over the last half century Written by active researchers the unique combination of articles allows readers to gain a sense of the excellence of the field ranging from theory to practice and the tradition of theoretical developments motivated by practically important issues such as tsunamis and financial crises The contributions discuss a range of topics including the parameter estimation of the generalized beta distribution resampling with the empirical beta copula and regression analysis on imbalanced binary data as well as the semiparametric estimation of the upper bound of extrema the long term analysis of extreme precipitation over Japanese river basins and various rules of thumb in hydrology *Proceedings of the United States - People's Republic of China Bilateral Symposium on Droughts and Arid-Region Hydrology, September 16-20, 1991, Tucson, Arizona ,1991* **Stochastic Water Resources Technology** N. T Kottegoda,1980-06-18 Current Engineering Practice ,1974 Runoff Prediction in Ungauged Basins Günter Blöschl,2013-04-18 A synthesis of international catchment hydrology research for researchers and professionals in hydrology soil science and environmental and civil engineering Hydrology and Water Law - Bridging the Gap J. Wallace,Patricia Wouters,2006-04-30 With integrated water resources management IWRM the current buzzword in international circles the real question is how to operationalise a truly multidisciplinary approach to the effective management of shared watercourses Based largely on the actual experience of HELP Hydrology for the Environment Life and Policy the overall aim of the book is to produce a series of case studies from around the world from the Aral Sea to Zimbabwe that demonstrate how the gaps between hydrology water law and management are actually bridged in practice Is hydrological data relevant and used in the formulation of national and international water law and policy Cases cited include examples of where this has happened and been successful or unsuccessful and where this has not happened and led to problems This will act as a guide to how future water laws and policies can be made more effective via the use of accurate and up to date hydrological information **Proceedings of the Second World Congress on Water Resources,: General reports and discussions** ,1975 Advances in Urban Flood Management Richard Ashley,Stephen Garvin,Erik Pasche,Andreas Vassilopoulos,Chris Zevenbergen,2007-02-01 One of the effects of global climate change is the increasing variability of extreme flood events and cyclones Current measures to mitigate flood impacts particularly in the

urban environment are based on previously planned flood risk intervals and no longer provide sufficient protection Being prepared for unexpected changes and extreme flood events asks for a paradigm shift in current strategies to avoid and manage flood disasters In order to stem the increasing impact of urban floods a major rethink of current planning and flood management policies and practice is required taking into account different spatial and temporal scales This book addresses a broad spectrum of relevant issues in the emerging field of urban flood management It may act as a stimulus for further research and development in urban flood management while informing and engaging stakeholders in the promotion of integrated and cooperative approaches in water management An interdisciplinary approach which will be of interest to all those who are active in water risk and urban management **Proceedings of the Rainfall Simulator Workshop** ,1979

Hydrological Drought Lena M. Tallaksen,Henny A.J. van Lanen,2004 The majority of the examples are taken from regions where the rivers run most of the year Humid Tropics Hydrology Leung-Ku Stephen Lau,Ryland L. Moore,Patricia Y. Hirakawa,1989 **MP.** ,

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