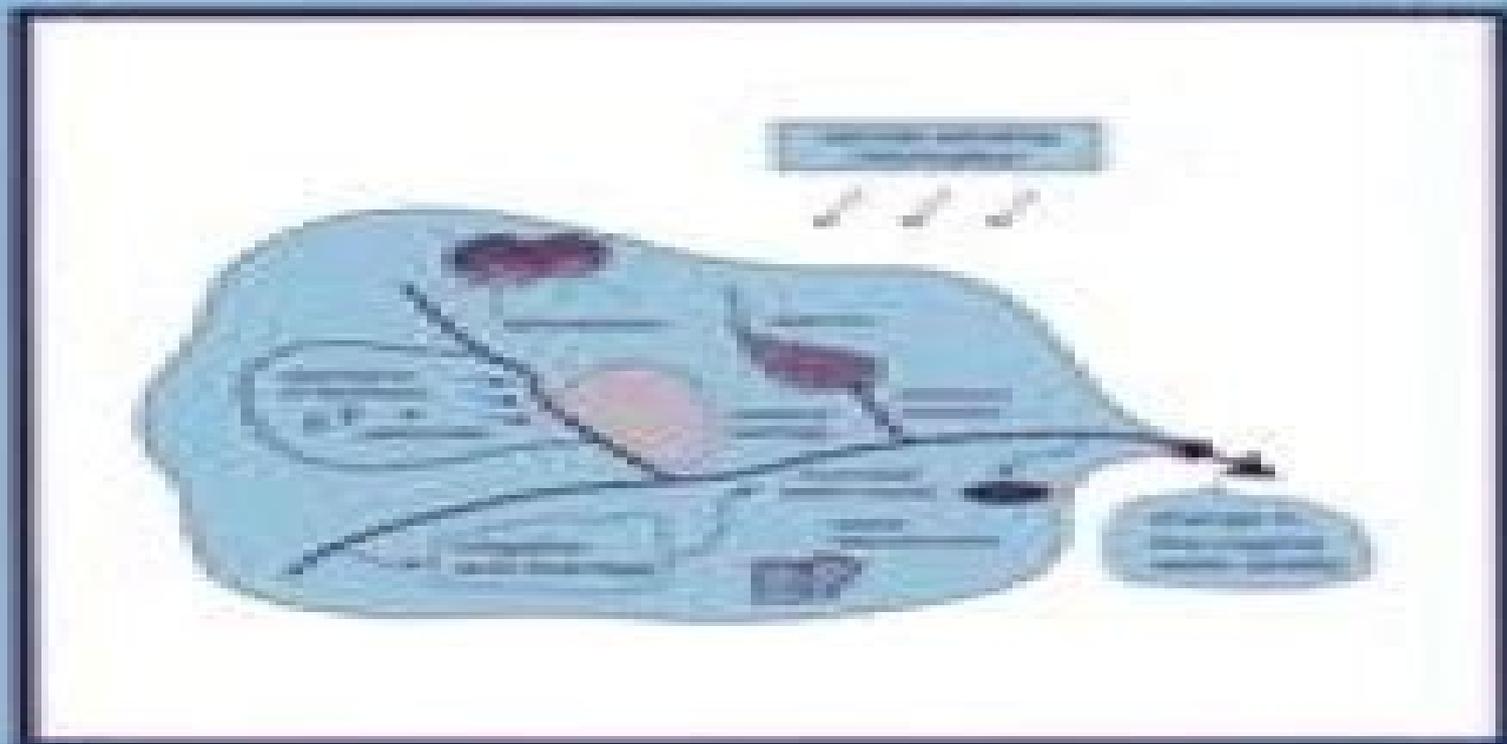


# DISTRIBUTED HYDROLOGICAL MODELLING

Edmond H. RAOUL and Jena Christian Thiessen†



# Distributed Hydrological Modelling

**Teklu Kidane Tesfa**



## **Distributed Hydrological Modelling:**

Distributed Hydrological Modelling Michael B. Abbott, Jens Christian Refsgaard, 2012-12-06 It is the task of the engineer as of any other professional person to do everything that is reasonably possible to analyse the difficulties with which his or her client is confronted and on this basis to design solutions and implement these in practice The distributed hydrological model is correspondingly the means for doing everything that is reasonably possible of mobilising as much data and testing it with as much knowledge as is economically feasible for the purpose of analysing problems and of designing and implementing remedial measures in the case of difficulties arising within the hydrological cycle Thus the aim of distributed hydrologic modelling is to make the fullest use of cartographic data of geological data of satellite data of stream discharge measurements of borehole data of observations of crops and other vegetation of historical records of floods and droughts and indeed of everything else that has ever been recorded or remembered and then to apply to this everything that is known about meteorology plant physiology soil physics hydrogeology sediment transport and everything else that is relevant within this context Of course no matter how much data we have and no matter how much we know it will never be enough to treat some problems and some situations but still we can aim in this way to do the best that we possibly can

**Distributed Hydrological Modelling** Michael B Abbott, Jens Christian Refsgaard, 1996-09-30 Distributed Hydrologic Modeling Using GIS Baxter E. Vieux, 2016-08-19 This book presents a unified approach for modeling hydrologic processes distributed in space and time using geographic information systems GIS This Third Edition focuses on the principles of implementing a distributed model using geospatial data to simulate hydrologic processes in urban rural and peri urban watersheds The author describes fully distributed representations of hydrologic processes where physics is the basis for modeling and geospatial data forms the cornerstone of parameter and process representation A physics based approach involves conservation laws that govern the movement of water ranging from precipitation over a river basin to flow in a river Global geospatial data have become readily available in GIS format and a modeling approach that can utilize this data for hydrology offers numerous possibilities GIS data formats spatial interpolation and resolution have important effects on the hydrologic simulation of the major hydrologic components of a watershed and the book provides examples illustrating how to represent a watershed with spatially distributed data along with the many pitfalls inherent in such an undertaking Since the First and Second Editions software development and applications have created a richer set of examples and a deeper understanding of how to perform distributed hydrologic analysis and prediction This Third Edition describes the development of geospatial data for use in Vflo physics based distributed modeling

**The Future of Distributed Hydrological Modelling** Jan Feyen, Keith Beven, 2002 *Improved Numerical Methods for Distributed Hydrological Models* Andrew P. Snowdon, 2009 Distributed hydrological models have been used for decades to calculate and predict the movement of water and energy within watersheds These models have evolved from relatively simple empirical applications into complex spatially distributed

and physically based programs However the evolution of distributed hydrological models has not involved the improvement of the numerical methods used to calculate the redistribution of water and energy in the watershed Because of this many models still use numerical methods that are potentially inaccurate In order to simulate the transport of water and energy in a hydrological model typical numerical methods employ an operator splitting approach Operator splitting OS essentially breaks down the set of coupled ordinary differential equations ODEs that define a hydrological model into separate ODEs that can be solved individually The dominant operator splitting method in surface water models is the ordered series approach Because the ordered series approach treats parallel hydrological processes as if they happen in series it is prone to errors that can significantly reduce the accuracy of model results The impact that operator splitting errors have upon hydrologic model results is to date unknown Using a new distributed hydrological model Raven the impact of operator splitting errors is investigated Understanding these errors will lead to better numerical methods for reducing errors in models and to shed light on the shortcomings of hydrological models with respect to numerical method choice Alternative numerical methods the explicit Euler and the implicit iterative Heun methods are implemented and assessed in their ability to minimize errors and produce more accurate distributed hydrological models

#### **Hydrological Modelling and the Water Cycle** Soroosh

Sorooshian, Kuo-lin Hsu, Erika Coppola, Barbara Tomassetti, Marco Verdecchia, Guido Visconti, 2008-07-18 This volume is a collection of a selected number of articles based on presentations at the 2005 L Aquila Italy Summer School on the topic of Hydrologic Modeling and Water Cycle Coupling of the Atmosphere and Hydrological Models The primary focus of this volume is on hydrologic modeling and their data requirements especially precipitation As the field of hydrologic modeling is experiencing rapid development and transition to application of distributed models many challenges including overcoming the requirements of compatible observations of inputs and outputs must be addressed A number of papers address the recent advances in the State of the art distributed precipitation estimation from satellites A number of articles address the issues related to the data merging and use of geo statistical techniques for addressing data limitations at spatial resolutions to capture the heterogeneity of physical processes The participants at the School came from diverse backgrounds and the level of interest and active involvement in the discussions clearly demonstrated the importance the scientific community places on challenges related to the coupling of atmospheric and hydrologic models Along with my colleagues Dr Erika Coppola and Dr Kuolin Hsu co directors of the School we greatly appreciate the invited lectures and all the participants The members of the local organizing committee Drs Barbara Tomassetti Marco Verdecchia and Guido Visconti were instrumental in the success of the school and their contributions both scientifically and organizationally are much appreciated

The Calibration and Uncertainty Evaluation of Spatially Distributed Hydrological JongKwan Kim, 2013 In the last decade spatially distributed hydrological models have rapidly advanced with the widespread availability of remotely sensed and geomatics information Particularly the areas of calibration and evaluation of spatially distributed hydrological models have been attempted in order

to reduce the differences between models and improve realism through various techniques. Despite steady efforts, the study of calibrations and evaluations for spatially distributed hydrological models is still a largely unexplored field in that there is no research in terms of the interactions of snow and water balance components with the traditional measurement methods as error functions. As one of the factors related to runoff melting snow is important especially in mountainous regions with heavy snowfall, however, no study considering both snow and water components simultaneously has investigated the procedures of calibration and evaluation for spatially distributed models. Additionally, novel approaches of error functions would be needed to reflect the characteristics of spatially distributed hydrological models in the comparison between simulated and observed values. Lastly, the shift from lumped model calibration to distributed model calibration has raised the model complexity. The number of unknown parameters can rapidly increase depending on the degree of distribution. Therefore, a strategy is required to determine the optimal degree of model distributions for a study basin. In this study, we will attempt to address the issues raised above. This study utilizes the Research Distributed Hydrological Model (RDHM) developed by the Hydrologic Development Office of the National Weather Service (OHD NWS). This model simultaneously simulates both snow and water balance components. It consists largely of two different modules, i.e., the Snow 17 as a snow component and the Sacramento Soil Moisture Accounting (SAC-SMA) as a water component, and is applied over the Durango River basin in Colorado, which is an area driven primarily by snow. As its main contribution, this research develops and tests various methods to calibrate and evaluate spatially distributed hydrological models with different non-commensurate variables and measurements. Additionally, this research provides guidance on the way to decide an appropriate degree of model distribution resolution for a specific water catchment.

Hydrological Processes and Distributed Hydrological Modelling, 2003. Encyclopedia of GIS Shashi Shekhar, Hui Xiong, 2007-12-12. The Encyclopedia of GIS provides a comprehensive and authoritative guide contributed by experts and peer reviewed for accuracy and alphabetically arranged for convenient access. The entries explain key software and processes used by geographers and computational scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location Based Services, and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art and simultaneously as an XML online reference with hyperlinked citations, cross references, four color art, links to web based maps, and other interactive features.

**Further Development of Distributed Hydrological Models with Reference to the Institute of Hydrology Distributed Model** C. Rogers, University of Bristol, 1986. **Environmental Modelling and Prediction** Gongbing Peng, Lance M. Leslie, Yaping Shao, 2001-11-06. In this book, the authors consider the natural environment as an integrated system. The physical, chemical, and biological processes that govern the behaviour of the environmental system can thus be understood through mathematical modelling, and their evolution can be studied by means of numerical simulation. The book contains a summary of various efficient approaches in atmospheric prediction, such as

numerical weather prediction and statistical forecast of climate change as well as other successful methods in land surface modelling The authors explore new theories and methods in environment prediction such as systems analysis and information theory Attention is given to new achievements in remote sensing tele metering and geographic information systems

**Application of Remote Sensing Data in Distributed Hydrological Modelling** S. Stisen, Danmarks Tekniske Universitet. Miljø & Ressourcer DTU., DTU., M & R., 2003 *Distributed Hydrological Modeling Using Soil Depth Estimated Based on Landscape Variables from Enhanced Terrain Analysis* Teklu Kidane Tesfa, 2010 The spatial patterns of land surface and subsurface characteristics determine the spatial heterogeneity of hydrological processes Soil depth is one of these characteristics and an important input parameter required by distributed hydrological models that explicitly represent spatial heterogeneity Soil is related to topography and land cover due to the role played by topography and vegetation in affecting soil forming processes The research described in this dissertation addressed the development of statistical models that predict the soil depth pattern over the landscape derivation of new topographic variables evaluated using both serial and parallel algorithms and evaluation of the impacts of detailed soil depth representation on simulations of stream flow and soil moisture The dissertation is comprised of three papers In paper 1 statistical models were developed to predict soil depth pattern over the watershed based on topographic and land cover variables Soil depth was surveyed at locations selected to represent the topographic and land cover variation at the Dry Creek Experimental Watershed near Boise Idaho Explanatory variables were derived from a digital elevation model and remote sensing imagery for regression to the field data Generalized Additive and Random Forests models were developed to predict soil depth over the watershed The models were able to explain about 50% of the soil depth spatial variation which is an important improvement over the soil depth extracted from the SSURGO national soil database In paper 2 definitions of the new topographic variables derived in the effort to model soil depth and serial and Message Passing Interface parallel implementations of the algorithms for their evaluation are presented The parallel algorithms enhanced the processing speed of large digital elevation models as compared to the serial recursive algorithms initially developed In paper 3 the impact of spatially explicit soil depth information on simulations of stream flow and soil moisture as compared to soil depth derived from the SSURGO soil database has been evaluated The Distributed Hydrology Vegetation Soil Model was applied using automated parameter optimization technique with all input parameters the same except soil depth Stream flow was less impacted by the detailed soil depth information while simulation of soil moisture was slightly improved due to the detailed representation of soil depth *Distributed Hydrological Modeling Using Soil Depth Estimated from Landscape Variables Derived with Enhanced Terrain Analysis* Teklu Kidane Tesfa, 2010 The spatial patterns of land surface and subsurface characteristics determine the spatial heterogeneity of hydrological processes Soil depth is one of these characteristics and an important input parameter required by distributed hydrological models that explicitly represent spatial heterogeneity Soil is related to topography and land cover due to the role played by topography

and vegetation in affecting soil forming processes The research described in this dissertation addressed the development of statistical models that predict the soil depth pattern over the landscape derivation of new topographic variables evaluated using both serial and parallel algorithms and evaluation of the impacts of detailed soil depth representation on simulations of stream flow and soil moisture The dissertation is comprised of three papers In paper 1 statistical models were developed to predict soil depth pattern over the watershed based on topographic and land cover variables Soil depth was surveyed at locations selected to represent the topographic and land cover variation at the Dry Creek Experimental Watershed near Boise Idaho Explanatory variables were derived from a digital elevation model and remote sensing imagery for regression to the field data Generalized Additive and Random Forests models were developed to predict soil depth over the watershed The models were able to explain about 50% of the soil depth spatial variation which is an important improvement over the soil depth extracted from the SSURGO national soil database In paper 2 definitions of the new topographic variables derived in the effort to model soil depth and serial and Message Passing Interface parallel implementations of the algorithms for their evaluation are presented The parallel algorithms enhanced the processing speed of large digital elevation models as compared to the serial recursive algorithms initially developed In paper 3 the impact of spatially explicit soil depth information on simulations of stream flow and soil moisture as compared to soil depth derived from the SSURGO soil database has been evaluated The Distributed Hydrology Vegetation Soil Model was applied using automated parameter optimization technique with all input parameters the same except soil depth Stream flow was less impacted by the detailed soil depth information while simulation of soil moisture was slightly improved due to the detailed representation of soil depth

GIS and Remote Sensing in Hydrology, Water Resources and Environment Yangbo Chen, International Association of Hydrological Sciences, 2004      **Application of Geographic Information Systems in Hydrology and Water Resources Management** Karel Kovar, H. P. Nachtnebel, 1996      Streamflow Modeling of a Large Arid Catchment Using Semi-distributed Hydrological Model and Modular Neural Network Milad Jajarmizadeh, 2013      **Rainfall - Runoff Modelling** Keith J. Beven, 2003 Table of contents Down to Basics Runoff Processes and the Modelling Process Evolution of Rainfall Runoff Models Survival of the Fittest Data for Rainfall Runoff Modelling Predicting Hydrographs Using Models Based on Data Predicting Hydrographs Using Distributed Models Based on Process Descriptions Hydrological Similarity and Distribution Function Rainfall Runoff Models Parameter Estimation and Predictive Uncertainty Predicting Floods Predicting the Effects of Change Revisiting the Problem of Model Choice      **A Distributed Hydrological Modelling Concept for Alpine Environments** Raymond Gerard Willem Venneker, 1996      **Methods for Spatial Pattern Comparison in Distributed Hydrological Modelling** Matthias Kuhnert, Andreas Guntner, Mechthild Klann, F. Martin Garrido, Birgit Zillgens, 2006

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