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# **THE RÍO CHAGRES, PANAMA**

**A Multidisciplinary Profile of a  
Tropical Watershed**

edited by

Russell S. Harmon



# Rio Chagres Panama A Multidisciplinary Profile Of A Tropical Watershed

**Russell S. Harmon, Sophie E. Baker, Eric  
V. McDonald**



## **Rio Chagres Panama A Multidisciplinary Profile Of A Tropical Watershed:**

*The Rio Chagres, Panama* Russell S. Harmon, 2005-10-11 This book calls the attention of the scientific community government organizations and non government agencies and the general public to arguably one of the most important and complex of the world's tropical rainforest regions the greater Panama Canal Watershed The Rio Chagres basin is the primary source for water to operate the Panama Canal and also supplies water for electricity generation and potable water for municipal use but this important national resource is largely unstudied from a scientific standpoint The broad objective of the book is to characterize and understand the physical and ecological components of an isolated and largely pristine tropical rainforest and describe how the different natural components of a tropical rainforest interact with one another The majority of the 23 papers contained in the volume are based upon presentations made at an international scientific symposium of the same title held at the Gambo Rainforest Resort and Conference Center in Gambo Panama on 24-26 February 2003 In turn most of the symposium presentations arose from research undertaken during a multidisciplinary field study conducted in the upper Rio Chagres watershed in 2001 by an international group of scientists Convened under sponsorship of the Autoridad del Canal de Panama Smithsonian Tropical Research Institute Universidad Tecnológica de Panama and US Army Yuma Proving Ground Tropical Regions Test Center this conference brought together some 50 scientists engineers and government officials from the international community

*The Rio Chagres, Panama* Russell S. Harmon, 2005-06-14 This book examines one of the most important and complex of the world's tropical rainforest regions the greater Panama Canal Watershed The Rio Chagres is the primary water source for operating the Canal and supplies potable water for municipal use and electricity generation but science has left this important national resource largely unstudied The text promotes understanding of the physical and ecological components of an isolated and largely pristine tropical rainforest

Rivers in the Landscape Ellen Wohl, 2014-03-07 *Rivers in the Landscape* Science and Management offers a comprehensive and accessible overview of the current state of knowledge for river process and form taking a holistic approach to the subject with coverage of integrated river science and management in practice The processes and forms present in channelized surface flow rivers are systematically explored in this book to emphasize the connectivity between rivers and the greater landscape by explicitly considering the interactions between rivers and tectonics climate biota and human activities provide a concise summary of the current state of knowledge for physical process and form in rivers reflect the diversity of river environments from mountainous headwater channels to large lowland floodplain rivers and from the arctic to the tropics reflect the diverse methods that scientists use to characterize and understand river process and form including remote sensing field measurements physical experiments and numerical simulations reflect the increasing emphasis on quantification in fluvial geomorphology and the study of Earth surfaces in general provide both an introduction to the classic foundational papers on each topic and a guide to the latest particularly insightful and integrative references Aimed at advanced undergraduate

students graduate students and professionals looking for a concise summary of physical aspects of rivers this book emphasizes general principles and conceptual models as well as concrete examples of each topic drawn from the extensive literature on river process and form

**Mountain Rivers Revisited** Ellen Wohl, 2013-05-28 Published by the American Geophysical Union as part of the Water Resources Monograph Series Volume 19 What are the forms and processes characteristic of mountain rivers and how do we know them Mountain Rivers Revisited an expanded and updated version of the earlier volume Mountain Rivers answers these questions and more Here is the only comprehensive synthesis of current knowledge about mountain rivers available While continuing to focus on physical process and form in mountain rivers the text also addresses the influences of tectonics climate and land use on rivers as well as water chemistry hyporheic exchange and riparian and aquatic ecology With its numerous illustrations and references hydrologists geomorphologists civil and environmental engineers ecologists resource planners and their students will find this book an essential resource Ellen Wohl received her Ph D in geology in 1988 from the University of Arizona Since then she has worked primarily on mountain and bedrock rivers in diverse environments

**The Maritime Landscape of the Isthmus of Panamá** James P. Delgado, Tomás Mendizábal, Frederick H. Hanselmann, Dominique Rissolo, 2016-08-30 In its 11 000 year human history the Isthmus of Panamá has been dominated by its relationship to the sea and the rivers that feed it A unique marine environment the land bridge shaped its inhabitants activities and those inhabitants shaped the Isthmus from harvesting resources to physically transforming the land to link two oceans This seminal work explores this intersection between people and the environment mining the archaeological and ethnological record created during the formation and development of Panamá's maritime cultural landscape Assessing sites both submerged and on land the authors explore the maritime history of the isthmus through its many stages from its prehistoric period through Spanish colonialism to the building of the canal and its function as a route for modern day maritime traffic Combining archaeology history geography and economic history this volume situates Panamá's canal and isthmus in the global economy and world maritime culture while providing a more complex understanding of human adaptation and the persistence of culture

**STRATI 2013** Rogério Rocha, João Pais, José Carlos Kullberg, Stanley Finney, 2014-04-23 The 1st International Congress on Stratigraphy STRATI 2013 held in Lisbon 1 7 July 2013 follows the decision to internationalize the conferences previously organized by the French Committee of Stratigraphy STRATI the last one of which was held in Paris in 2010 Thus the congress possesses both the momentum gained from an established conference event and the excitement of being the first International Congress on Stratigraphy It is held under the auspices of the International Commission on Stratigraphy IUGS and it is envisaged that this first congress will lead to others being held in the future This book includes all papers accepted for oral or poster presentation at the 1st International Congress on Stratigraphy Papers include a short abstract main text figures tables and references Each paper has been reviewed by two internationally renowned scientists

**Mountains, Climate and Biodiversity** Carina Hoorn, Allison

Perrigo,Alexandre Antonelli,2018-04-30 Mountains Climate and Biodiversity A comprehensive and up to date synthesis for students and researchers Mountains are topographically complex formations that play a fundamental role in regional and continental scale climates They are also cradles to all major river systems and home to unique and often highly biodiverse and threatened ecosystems But how do all these processes tie together to form the patterns of diversity we see today Written by leading researchers in the fields of geology biology climate and geography this book explores the relationship between mountain building and climate change and how these processes shape biodiversity through time and space In the first two sections you will learn about the processes theory and methods connecting mountain building and biodiversity In the third section you will read compelling examples from around the world exploring the links between mountains climate and biodiversity Throughout the 31 peer reviewed chapters a non technical style and synthetic illustrations make this book accessible to a wide audience A comprehensive glossary summarises the main concepts and terminology Readership Mountains Climate and Biodiversity is intended for students and researchers in geosciences biology and geography It is specifically compiled for those who are interested in historical biogeography biodiversity and conservation

*American Tropics* Megan Raby,2017-10-03 Biodiversity has been a key concept in international conservation since the 1980s yet historians have paid little attention to its origins Uncovering its roots in tropical fieldwork and the southward expansion of U S empire at the turn of the twentieth century Megan Raby details how ecologists took advantage of growing U S landholdings in the circum Caribbean by establishing permanent field stations for long term basic tropical research From these outposts of U S science a growing community of American tropical biologists developed both the key scientific concepts and the values embedded in the modern discourse of biodiversity Considering U S biological fieldwork from the era of the Spanish American War through the anticolonial movements of the 1960s and 1970s this study combines the history of science environmental history and the history of U S Caribbean and Latin American relations In doing so Raby sheds new light on the origins of contemporary scientific and environmentalist thought and brings to the forefront a surprisingly neglected history of twentieth century U S science and empire

*Beyond the Big Ditch* Ashley Carse,2014-10-31 A historical and ethnographic study of the conflict between global transportation and rural development as the two intersect at the Panama Canal In this innovative book Ashley Carse traces the water that flows into and out from the Panama Canal to explain how global shipping is entangled with Panama s cultural and physical landscapes By following container ships as they travel downstream along maritime routes and tracing rivers upstream across the populated watershed that feeds the canal he explores the politics of environmental management around a waterway that links faraway ports and markets to nearby farms forests cities and rural communities Carse draws on a wide range of ethnographic and archival material to show the social and ecological implications of transportation across Panama The Canal moves ships over an aquatic staircase of locks that demand an enormous amount of fresh water from the surrounding region Each passing ship drains 52 million gallons out to sea a volume

comparable to the daily water use of half a million Panamanians Infrastructures like the Panama Canal Carse argues do not simply conquer nature they rework ecologies in ways that serve specific political and economic priorities Interweaving histories that range from the depopulation of the U S Canal Zone a century ago to road construction conflicts and water hyacinth invasions in canal waters the book illuminates the human and nonhuman actors that have come together at the margins of the famous trade route 2014 marks the 100th anniversary of the Panama Canal Beyond the Big Ditch calls us to consider how infrastructures are materially embedded in place producing environments with winners and losers Methods and Tools for Drought Analysis and Management Giuseppe Rossi,Teodoro Vega,Brunella Bonaccorso,2007-07-26

Implementation of effective drought management policies requires both advanced technologies and appropriate methods Monitoring and forecasting systems practical tools for risk assessment as well as simple and objective criteria to select and implement appropriate drought mitigation measures are key elements for a successful drought management strategy These key issues have been tackled by universities and public agencies involved in the EU projects Sedemed and Sedemed II Programme Interreg IIIB MEDOCC aimed at the definition of an integrated network for real time monitoring of drought the development of common methodologies for drought analysis and forecasting as well as the definition of proper mitigation strategies for the Mediterranean countries The book presents the main outcomes of such projects with a special focus on drought monitoring and forecasting techniques at different spatial scales new or modified agrometeorological indices and remote sensing technique for drought identification and characterization tools to improve surface water resources management under drought conditions methods and tools for groundwater resources monitoring and management based on hydrogeological and hydrodynamics characteristics of aquifers general criteria to select and implement mitigation strategies to prevent or minimize drought impacts *Extremes in Nature* Gianfausto Salvadori,Carlo De Michele,Nathabandu T.

Kottegoda,Renzo Rosso,2007-06-01 This book is about the theoretical and practical aspects of the statistics of Extreme Events in Nature Most importantly this is the first text in which Copulas are introduced and used in Geophysics Several topics are fully original and show how standard models and calculations can be improved by exploiting the opportunities offered by Copulas In addition new quantities useful for design and risk assessment are introduced **Groundwater**

**Recharge from Run-off, Infiltration and Percolation** K.-P. Seiler,J.R. Gat,2007-09-20 Groundwater constitute the most important reservoir of available clean water Due to its overexploitation some anthropogenic mismanagement on the surface and the overloading of the cleanup potential of subsurface many of the groundwater systems used for water supply are in jeopardy The problem is very severe in dry lands but also in urban industrial agricultural and traffic areas This book first discusses the recharge fluxes relating both to the quantity and quality of groundwater In order to face the threats to the water supply and to be able to maintain a sustainable water management policy detailed knowledge is needed in between others on the surface to subsurface transformation link in the water cycle Secondly the presentation and comparison of both

the traditional and modern approach to determine groundwater recharge is discussed The traditional approach to determine groundwater recharge is based on water balance estimates and hydraulic considerations which yield instantaneous values at best but do not integrate the totality of recharge pathways in time and space In contrast environmental tracers do integrate these factors Finally the fate of groundwater recharge in the subsurface by hydraulic and geologic means is discussed in detail in order to stimulate adapted groundwater management strategies and to better assess consequences of climate changes on groundwater resources as a whole Audience This book will be of interest to hydrologists hydro geologists engineers geographers agronomists soil scientists groundwater modellers environmental physicists limnologists *Gravel Bed Rivers* 6 H. Habersack, H. Piegay, M. Rinaldi, 2011-09-22 Based on the interdisciplinary approaches between earth science engineering physical geography ecology and management this text focuses on the theoretical questions case studies challenges and constraints taken from river restoration It is illustrated with reports of new ground breaking research covering spatial and temporal scales of physical processes in river catchments coupling catchment and fluvial processes grain dynamics and fluvial forms and on geo ecology and restoration in mountain gravel bed river environments Each chapter includes discussions and comments providing experience and feedback from the fundamental research This book covers scales of analysis for gravel bed rivers physics and modeling of processes at local and point scales sediment delivery and storage eco geography and eco hydraulics and channel management and restoration Major topics in the field are presented by recognized scientific leaders Chapters cover theories practices and methodologies in river management and restoration Interdisciplinary approach includes case studies on new ground breaking research *U.S. Geological Survey Professional Paper* Sheila F. Murphy, Robert Forster Stallard, 1984 **Geomorphometry** Tomislav Hengl, Hannes I. Reuter, 2008-11-20 Geomorphometry is the science of quantitative land surface analysis It draws upon mathematical statistical and image processing techniques to quantify the shape of earth s topography at various spatial scales The focus of geomorphometry is the calculation of surface form measures land surface parameters and features objects which may be used to improve the mapping and modelling of landforms to assist in the evaluation of soils vegetation land use natural hazards and other information This book provides a practical guide to preparing Digital Elevation Models DEM for analysis and extracting land surface parameters and objects from DEMs through a variety of software It further offers detailed instructions on applying parameters and objects in soil agricultural environmental and earth sciences This is a manual of state of the art methods to serve the various researchers who use geomorphometry Soil scientists will use this book to further learn the methods for classifying and measuring the chemical biological and fertility properties of soils and gain a further understanding of the role of soil as a natural resource Geologists will find value in the instruction this book provides for measuring the physical features of the soil such as elevation porosity and structure which geologists use to predict natural disasters such as earthquakes volcanoes and flooding Technical details on a variety of software packages allow researchers to solve real life mapping issues

Provides soil and agronomy researchers best practice techniques for soil data analysis to assist in enhanced land use and planning Offers geologists essential tactics for better environmental management by providing a comprehensive analysis of the physical features of soil Companion website includes access to the latest technological advancements previously unpublished in any other comprehensive source geomorphometry software DEM data sources and applications Digital Soil Mapping Janis L. Boettinger, David W. Howell, Amanda C. Moore, Alfred E. Hartemink, Suzann Kienast-Brown, 2010-06-28 Digital Soil Mapping is the creation and the population of a geographically referenced soil database It is generated at a given resolution by using field and laboratory observation methods coupled with environmental data through quantitative relationships Digital soil mapping is advancing on different fronts at different rates all across the world This book presents the state of the art and explores strategies for bridging research production and environmental application of digital soil mapping It includes examples from North America South America Europe Asia and Australia The chapters address the following topics evaluating and using legacy soil data exploring new environmental covariates and sampling schemes using integrated sensors to infer soil properties or status innovative inference systems predicting soil classes properties and estimating their uncertainties using digital soil mapping and techniques for soil assessment and environmental application protocol and capacity building for making digital soil mapping operational around the globe Treatise on Geomorphology, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper



topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned      **Targets and Backgrounds** ,2006      **Military Geosciences in the Twenty-First Century** Russell S. Harmon,Sophie E. Baker,Eric V. McDonald,2014-08-22 Eighteen chapters address the complex yet critical aspects of the role of geosciences in military undertakings The chapters cover a wide range of expertise drawn from the broad area of geology geomorphology geography geophysics engineering geology hydrogeology cartography environmental science remote sensing soil science geoinformatics and related disciplines that reflect the multidisciplinary nature of military geology      Вода. Биография, рассказанная человечеством Джулио Боккалетти,2023-03-24 PDF A4

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