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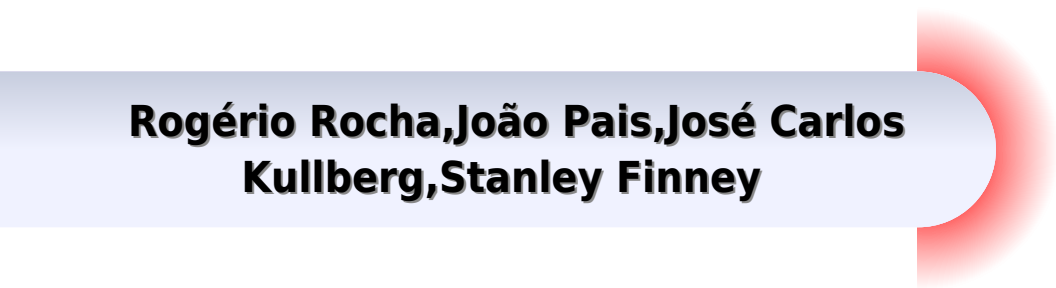
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Rio Chagres Panama A Multidisciplinary Profile Of A Tropical Watershed

**Rogério Rocha, João Pais, José Carlos
Kullberg, Stanley Finney**



Rio Chagres Panama A Multidisciplinary Profile Of A Tropical Watershed:

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 Panam 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 Panam 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 hold 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 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

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