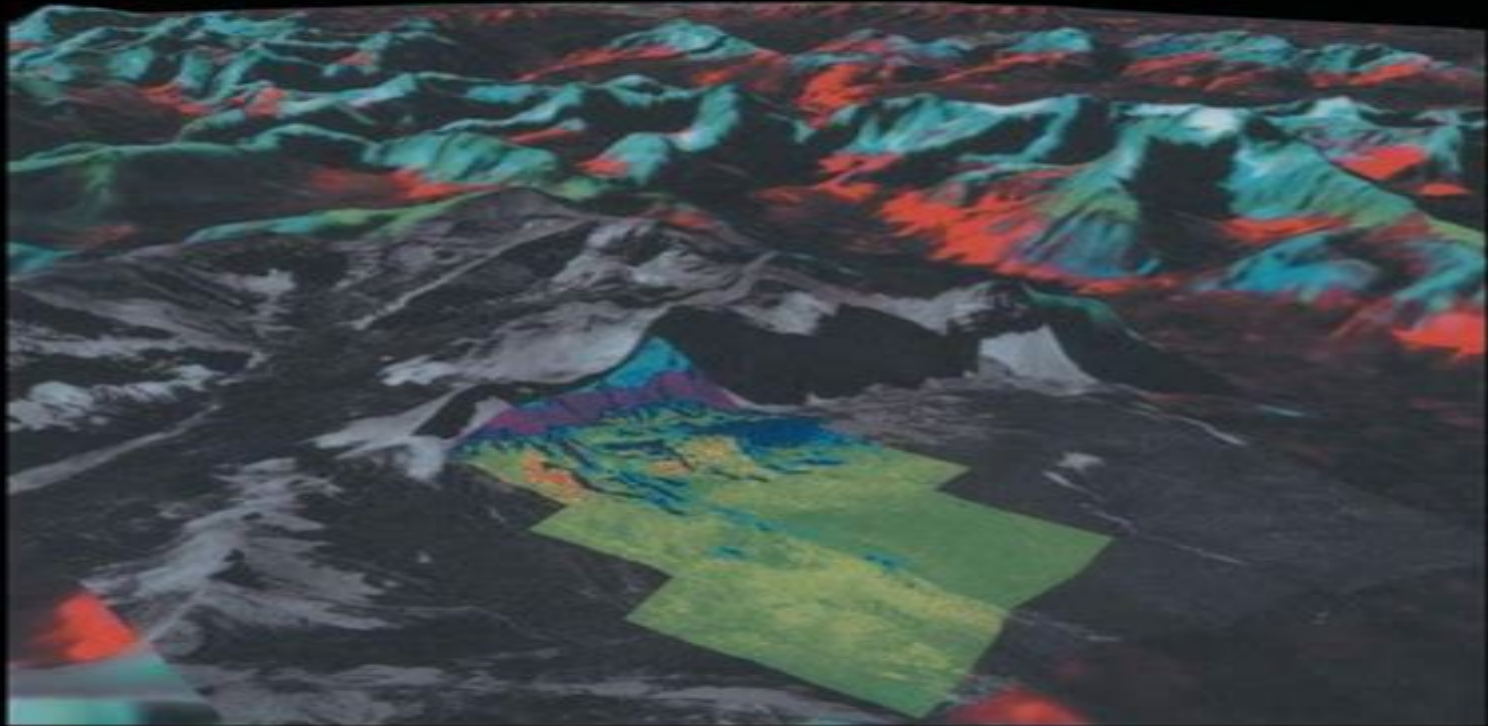


# **GIS AND REMOTE SENSING APPLICATIONS IN BIOGEOGRAPHY AND ECOLOGY**



**edited by**

**Andrew C. Millington, Stephen J. Walsh, Patrick E. Osborne**

# Gis And Remote Sensing Applications In Biogeography And Ecology

**Robert Fletcher, Brian Dowd-  
Uribe, Guntra A. Aistara**



## **Gis And Remote Sensing Applications In Biogeography And Ecology:**

**GIS and Remote Sensing Applications in Biogeography and Ecology** Andrew C. Millington, Stephen J. Walsh, Patrick E. Osborne, 2013-03-11 In recent years the conservation of tropical forests has received worldwide publicity whereas effective forest management particularly for timber extraction has attracted little attention and gained some notoriety The overall aim of the present paper was to examine how environmental micro variation in the Chiquibul Forest Reserve of Belize can influence species distribution and thereby inform management strategy The paper deals first with the background to forest management in Belize then considers the methodology used in the present study and finally assesses the preliminary results The specific objectives are 1 to assess the effects of changing scale on the variability of selected individual soil properties in forest plots within the same vegetation class and 2 to examine the variation in soil properties and tree species distribution and to integrate environmental and ecological data over a range of scales BACKGROUND Whereas the global and regional distribution of tropical forests is broadly governed by climatic and altitudinal variation individual forest tracts need to consider a range of other locally important factors to explain species distribution and change With very high species diversity tropical forests present a major challenge in the attempt to unravel controlling factors in distribution and growth Swaine et al 1987 Research that attempts to explain diversity has looked at species distribution according to a range of factors with a general recognition that soil fertility plays a significant if ill defined role Swaine 1996 **The SAGE**

**Handbook of Biogeography** Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22 A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future especially within geography departments I expect to refer to it often Professor Sally Horn University of Tennessee As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use Biogeography is interdisciplinary and a commonly voiced concern is that one biogeographer may not readily understand another's research findings A handbook like this is important for synthesising situating explaining and evaluating a large literature and pointing the reader to informative publications Geographical Research A valuable contribution in both a research and teaching context If you are biologically trained it provides an extensive look into the geographical tradition of biogeography covering some topics that may be less familiar to those with an evolution ecology background Alternatively if you are a geography student researcher or lecturer it will provide a useful reference and will be invaluable to the non biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them Adam C Algar **Frontiers of Biogeography** The SAGE Handbook of Biogeography is a manual for scoping the past present and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools In line with the concept of all SAGE Handbooks this is a retrospective and prospective overview of biogeography that will Consider the main areas of biogeography researched by geographers Detail a global perspective by

incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences Aimed at an international audience of research students academics researchers and practitioners in biogeography the text will attract interest from environmental scientists ecologists biologists and geographers alike

**Remote Sensing Image Analysis: Including the Spatial Domain** Steven M. de Jong, Freek D. van der Meer, 2007-07-26 Remote Sensing image analysis is mostly done using only spectral information on a pixel by pixel basis Information captured in neighbouring cells or information about patterns surrounding the pixel of interest often provides useful supplementary information This book presents a wide range of innovative and advanced image processing methods for including spatial information captured by neighbouring pixels in remotely sensed images to improve image interpretation or image classification Presented methods include different types of variogram analysis various methods for texture quantification smart kernel operators pattern recognition techniques image segmentation methods sub pixel methods wavelets and advanced spectral mixture analysis techniques Apart from explaining the working methods in detail a wide range of applications is presented covering land cover and land use mapping environmental applications such as heavy metal pollution urban mapping and geological applications to detect hydrocarbon seeps The book is meant for professionals PhD students and graduates who use remote sensing image analysis image interpretation and image classification in their work related to disciplines such as geography geology botany ecology forestry cartography soil science engineering and urban and regional planning

General Technical Report NE, 1980 **The Ecolaboratory** Robert Fletcher, Brian Dowd-Urbe, Guntra A. Aistara, 2020-03-17 Despite its tiny size and seeming marginality to world affairs the Central American republic of Costa Rica has long been considered an important site for experimentation in cutting edge environmental policy From protected area management to ecotourism to payment for environmental services PES and beyond for the past half century the country has successfully positioned itself at the forefront of novel trends in environmental governance and sustainable development Yet the increasingly urgent dilemma of how to achieve equitable economic development in a world of ecosystem decline and climate change presents new challenges testing Costa Rica's ability to remain a leader in innovative environmental governance This book explores these challenges how Costa Rica is responding to them and the lessons this holds for current and future trends regarding environmental governance and sustainable development It provides the first comprehensive assessment of successes and challenges as they play out in a variety of sectors including agricultural development biodiversity conservation water management resource extraction and climate change policy By framing Costa Rica as an ecolaboratory the contributors in this volume examine the lessons learned and offer a path for the future of sustainable development research and policy in Central America and beyond

*Geography and Technology* Stanley D. Brunn, Susan L. Cutter, J.W. Harrington Jr., 2004-05-31 It is particularly appropriate that the AAG's Centennial Celebration should prompt the

publication of a volume devoted to Geography and Technology New technologies have always been important in advancing geographic understanding but never have they been so thoroughly and rapidly transformative of the discipline as at this stage in geography's evolution Just as new technologies have profoundly expanded both research possibilities and the knowledge base of other disciplines such as biology physics or medicine so too are the revolutionary new geographic technologies developed during the past few decades extending frontiers in geographic research education and applications They are also creating new and resurgent roles for geography in both society and in the university This trend is still accelerating as the integration of geographic technologies such as the global positioning system and geographic information systems GPS GIS is creating an explosion of new real time real world applications and research capabilities The resultant dynamic space time interactive research and management environments created by interactive GPS GIS among other technologies places geography squarely at the forefront of advanced multidisciplinary research and modeling programs and has created core organization management tools geographic management systems which will dramatically change the way governments and businesses work in the decades ahead While these and other important geographic technologies including remote sensing location based services and many others addressed in this book are forging new opportunities for geography and geographers they also pose challenges

Urban Remote Sensing Xiaojun X. Yang, 2021-10-06 Urban Remote Sensing The second edition of Urban Remote Sensing is a state of the art review of the latest progress in the subject The text examines how evolving innovations in remote sensing allow to deliver the critical information on cities in a timely and cost effective way to support various urban management activities and the scientific research on urban morphology socio environmental dynamics and sustainability Chapters are written by leading scholars from a variety of disciplines including remote sensing GIS geography urban planning environmental science and sustainability science with case studies predominately drawn from North America and Europe A review of the essential and emerging research areas in urban remote sensing including sensors techniques and applications especially some critical issues that are shifting the directions in urban remote sensing research Illustrated in full color throughout including numerous relevant case studies and extensive discussions of important concepts and cutting edge technologies to enable clearer understanding for non technical audiences Urban Remote Sensing Second Edition will be of particular interest to upper division undergraduate and graduate students researchers and professionals working in the fields of remote sensing geospatial information and urban environmental planning

**Computer Processing of Remotely-Sensed Images** Paul M. Mather, Magaly Koch, 2011-07-28 This fourth and full colour edition updates and expands a widely used textbook aimed at advanced undergraduate and postgraduate students taking courses in remote sensing and GIS in Geography Geology and Earth Environmental Science departments Existing material has been brought up to date and new material has been added In particular a new chapter exploring the two way links between remote sensing and environmental GIS has been added New and updated material includes A website at [www](http://www)

wiley.com go.mather4 that provides access to an updated and expanded version of the MIPS image processing software for Microsoft Windows PowerPoint slideshows of the figures from each chapter and case studies including full data sets Includes new chapter on Remote Sensing and Environmental GIS that provides insights into the ways in which remotely sensed data can be used synergistically with other spatial data sets including hydrogeological and archaeological applications New section on image processing from a computer science perspective presented in a non technical way including some remarks on statistics New material on image transforms including the analysis of temporal change and data fusion techniques New material on image classification including decision trees support vector machines and independent components analysis and Now in full colour throughout This book provides the material required for a single semester course in Environmental Remote Sensing plus additional more advanced reading for students specialising in some aspect of the subject It is written largely in non technical language yet it provides insights into more advanced topics that some may consider too difficult for a non mathematician to understand The case studies available from the website are fully documented research projects complete with original data sets For readers who do not have access to commercial image processing software MIPS provides a licence free intuitive and comprehensive alternative

**Land Use Change** Richard J. Aspinall, Michael J. Hill, 2007-12-14 Changes in the use of land reflect a variety of environmental and social factors necessitating an equally varied suite of data to be used for effective analysis While remote sensing both from satellites and air photos provides a central resource for study socio economic surveys censuses and map sources also supply a wealth of valid informati

**Geography in America at the Dawn of the 21st Century** Gary L. Gaile, Cort J. Willmott, 2005 Geography in America at the Dawn of the 21st Century surveys American geographers current research in their specialty areas and tracks trends and innovations in the many subfields of geography As such it is both a state of the discipline assessment and a topical reference It includes an introduction by the editors and 47 chapters each on a specific specialty The authors of each chapter were chosen by their specialty group of the American Association of Geographers AAG Based on a process of review and revision the chapters in this volume have become truly representative of the recent scholarship of American geographers While it focuses on work since 1990 it additionally includes related prior work and work by non American geographers The initial Geography in America was published in 1989 and has become a benchmark reference of American geographical research during the 1980s This latest volume is completely new and features a preface written by the eminent geographer Gilbert White

Multispectral Satellite Image Understanding Cem Ünsalan, Kim L. Boyer, 2011-05-18 This book presents a comprehensive review of image processing methods for the analysis of land use in residential areas Combining a theoretical framework with highly practical applications the book describes a system for the effective detection of single houses and streets in very high resolution Topics and features with a Foreword by Prof Dr Peter Reinartz of the German Aerospace Center provides end of chapter summaries and review questions presents a detailed review on remote sensing satellites

examines the multispectral information that can be obtained from satellite images with a focus on vegetation and shadow water indices investigates methods for land use classification introducing precise graph theoretical measures over panchromatic images addresses the problem of detecting residential regions describes a house and street network detection subsystem concludes with a summary of the key ideas covered in the book

The SAGE Handbook of Remote Sensing Timothy A Warner, M Duane Nellis, Giles M Foody, 2009-06-18 A magnificent achievement A who's who of contemporary remote sensing have produced an engaging wide ranging and scholarly review of the field in just one volume Professor Paul Curran Vice Chancellor Bournemouth University Remote Sensing acquires and interprets small or large scale data about the Earth from a distance Using a wide range of spatial spectral temporal and radiometric scales Remote Sensing is a large and diverse field for which this Handbook will be the key research reference Organized in four key sections Interactions of Electromagnetic Radiation with the Terrestrial Environment chapters on Visible Near IR and Shortwave IR Middle IR 3 5 micrometers Thermal IR Microwave Digital sensors and Image Characteristics chapters on Sensor Technology Coarse Spatial Resolution Optical Sensors Medium Spatial Resolution Optical Sensors Fine Spatial Resolution Optical Sensors Video Imaging and Multispectral Digital Photography Hyperspectral Sensors Radar and Passive Microwave Sensors Lidar Remote Sensing Analysis Design and Implementation chapters on Image Pre Processing Ground Data Collection Integration with GIS Quantitative Models in Remote Sensing Validation and accuracy assessment Remote Sensing Analysis Applications LITHOSPHERIC SCIENCES chapters on Topography Geology Soils PLANT SCIENCES Vegetation Agriculture HYDROSPHERIC and CRYOSPHERIC SCIENCES Hydrosphere Fresh and Ocean Water Cryosphere GLOBAL CHANGE AND HUMAN ENVIRONMENTS Earth Systems Human Environments Real Time Monitoring Systems and Disaster Management Land Cover Change Illustrated throughout an essential resource for the analysis of remotely sensed data the SAGE Handbook of Remote Sensing provides researchers with a definitive statement of the core concepts and methodologies in the discipline

Mapping Species Distributions Janet Franklin, 2010-01-07 Maps of species distributions or habitat suitability are required for many aspects of environmental research resource management and conservation planning These include biodiversity assessment reserve design habitat management and restoration species and habitat conservation plans and predicting the effects of environmental change on species and ecosystems The proliferation of methods and uncertainty regarding their effectiveness can be daunting to researchers resource managers and conservation planners alike Franklin summarises the methods used in species distribution modeling also called niche modeling and presents a framework for spatial prediction of species distributions based on the attributes space time scale of the data and questions being asked The framework links theoretical ecological models of species distributions to spatial data on species and environment and statistical models used for spatial prediction Providing practical guidelines to students researchers and practitioners in a broad range of environmental sciences including ecology geography conservation biology and natural resources management

*Information Technology for Education, Science, and Technics* Emil Faure, Yurii Tryus, Tero Vartiainen, Olena Danchenko, Maksym Bondarenko, Constantine Bazilo, Grygoriy Zaspas, 2024-10-02 This book deals with issues related to multifaceted applications of information and communication technology in research engineering robotics automation of technological processes complex systems and computer networks as well as mathematical and computer modelling of physical chemical and economic processes In this book the authors explore various aspects of information and communication technology and systems and their integration into science engineering automation and economics The authors develop new models methods and approaches for monitoring and controlling systems communication networks artificial intelligence applications and digital resilience The book is of interest to experts in the field of information and communication technology and systems scientists and Ph D students

**Comprehensive Remote Sensing** Shunlin Liang, 2017-11-08 Comprehensive Remote Sensing Nine Volume Set covers all aspects of the topic with each volume edited by well known scientists and contributed to by frontier researchers It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline The field of remote sensing has quadrupled in size in the past two decades and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers oceanographers and meteorologists to physicists and computer scientists Researchers from a variety of backgrounds are now accessing remote sensing data creating an urgent need for a one stop reference work that can comprehensively document the development of remote sensing from the basic principles modeling and practical algorithms to various applications Fully comprehensive coverage of this rapidly growing discipline giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains Layered content with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles further enhancing understanding

*Globalization and New Geographies of Conservation* Karl S. Zimmerer, 2006-09-15 Examining the geographical dimensions of environmental management and conservation activities implemented on landscapes worldwide Globalization and New Geographies of Conservation creates a new framework and collects original case studies to explore recent developments in the interaction of humans and their environment Globalization and New Geographies of Conservation makes four important arguments about the recent coupling of conservation and globalization that is reshaping the place of nature in human environmental change First it has led to an unprecedented number of spatial arrangements whose environmental management goals and prescribed activities vary along a spectrum from strict biodiversity protection to sustainable utilization involving agriculture food production and extractive activities Conservation and globalization are also leading by necessity to new scales of management in these activities that rely on environmental science thus shifting the spatial patterning of humans and the environment This interaction results as well in the unprecedented importance of boundaries



and borders transnational border issues pose both opportunities and threats to global conservation proposed by organizations and institutions that are themselves international Lastly Globalization and New Geographies of Conservation argues that the local level has been integral to globalization while the regional level is often eclipsed at the peril of the successful implementation of conservation and management programs Bridging the gap between geography and life science Globalization and New Geographies of Conservation will appeal to a broad range of students of the environment conservation planning biodiversity management and development and globalization studies GeoDynamics Peter Atkinson, Giles M. Foody, Steven E. Darby, Fulong Wu, 2004-12-16 While remote sensing gives a surface depiction of the world its recent convergence with GIS enables richer depictions that can be used to simulate physical processes identify trends and make more accurate predictions GeoDynamics is based on specialized lectures from an international field of experts addressing remote sensing spatially *The Changing Alpine Treeline* David R. Butler, George P. Malanson, Stephen J. Walsh, Daniel B. Fagre, 2009-03-13 The alpine treeline ecotone ATE is an area of transition high on mountains where closed canopy forests from lower elevations give way to the open alpine tundra and rocky expanses above Alpine tundra is an island biome and its ecotone with forest is subject to change and like oceanic islands alpine tundra is subject to invasion or the upward advance of treeline The invasion of tundra by trees will have consequences for the tundra biome as invasion does for other island flora and fauna To examine the invasibility of tundra we take a plant's eye view wherein the local conditions become extremely important Among these local conditions we find geomorphology to be exceptionally important We concentrate on aspects of microtopography and microgeomorphology and microclimate because these are the factors that matter from the plant's eye view but we pay attention to multiple scales At coarse scales snow avalanches and debris flows are widespread and create disturbance treelines whose elevation is well below those controlled by climate At medium scales turf banked terraces create tread and riser topography that is a difficult landscape for a tree seedling to survive upon because of exposure to wind dryness and impenetrable surfaces At fine scales turf exfoliation of the fronts of turf banked risers and boulders offer microsites where tree seedlings may find shelter and are able to gain a foothold in the alpine tundra conversely however surfaces of needle ice pans and frost heaving associated with miniature patterned ground production are associated with sites inimical to seedling establishment or survival We explicitly consider how local scale processes propagate across scales into landscape patterns The objective of this book is to examine the controls on change at alpine treeline All the papers are focused on work done in Glacier National Park Montana USA Although any one place is limiting we are able to examine the alpine treeline here in some detail and an advantage is that the treeline ecotone in Glacier National Park is quite variable in itself due to the underlying variability in geomorphology at multiple scales This book will provide insights into an important ecological phenomenon with a distinctly geomorphic perspective The editors collectively have over 100 years of experience in working in geomorphology biogeography and ecology They also have each worked on research in Glacier National Park for

several decades The book will be a reference for a variety of professionals and students both graduate and undergraduate with interests in Physical Geography Geomorphology Ecology and Environmental Science Because of the importance of the alpine treeline ecotone for recreation and aesthetic interests in mountain environments wildland and park managers will also use this book Subject matter geomorphology at alpine treeline Expertise of contributors each editor brings over 25 years of experience in studies of ecotones and geomorphology and collectively over 100 years of experience in Glacier National Park Changing alpine treeline examines climate change

**Predicting Species Occurrences** J. Michael Scott, Patricia Heglund, Michael L. Morrison, 2002-02 Predictions about where different species are where they are not and how they move across a landscape or respond to human activities if timber is harvested for instance or stream flow altered are important aspects of the work of wildlife biologists land managers and the agencies and policymakers that govern natural resources Despite the increased use and importance of model predictions these predictions are seldom tested and have unknown levels of accuracy Predicting Species Occurrences addresses those concerns highlighting for managers and researchers the strengths and weaknesses of current approaches as well as the magnitude of the research required to improve or test predictions of currently used models The book is an outgrowth of an international symposium held in October 1999 that brought together scientists and researchers at the forefront of efforts to process information about species at different spatial and temporal scales It is a comprehensive reference that offers an exhaustive treatment of the subject with 65 chapters by leading experts from around the world that review the history of the theory and practice of modeling and present a standard terminology examine temporal and spatial scales in terms of their influence on patterns and processes of species distribution offer detailed discussions of state of the art modeling tools and descriptions of methods for assessing model accuracy discuss how to predict species presence and abundance present examples of how spatially explicit data on demographics can provide important information for managers An introductory chapter by Michael A Huston examines the ecological context in which predictions of species occurrences are made and a concluding chapter by John A Wiens offers an insightful review and synthesis of the topics examined along with guidance for future directions and cautions regarding misuse of models Other contributors include Michael P Austin Barry R Noon Alan H Fielding Michael Goodchild Brian A Maurer John T Rotenberry Paul Angermeier Pierre R Vernier and more than a hundred others Predicting Species Occurrences offers important new information about many of the topics raised in the seminal volume Wildlife 2000 University of Wisconsin Press 1986 and will be the standard reference on this subject for years to come Its state of the art assessment will play a key role in guiding the continued development and application of tools for making accurate predictions and is an indispensable volume for anyone engaged in species management or conservation

A Review and Assessment of Land-use Change Models Chetan Agarwal, 2002

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