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Getting to Scale Jun 03 2020 Visit any developing country and you will find governments, international donors, NGOs, and corporations involved in a range of innovative activities to address the needs of the poor. Only a fraction of those that show promise at a localized level, however, will ever be replicated, expanded, and sustained to achieve a transformative impact. Learning how to expand the reach of proven interventions so that they help larger numbers of poor people - 'scaling up' - is a fundamental challenge facing the developing world. This book improves our understanding of how scaling up can be achieved and what the international community can do to support the process. Remarkably little is understood of how to design scalable projects, the impediments to reaching scale, or the most appropriate pathways for reaching that goal. To answer these questions, this book features a series of case studies drawn from both the public and private sectors to demonstrate how the scaling up of services for the world's poor can happen. By linking public and private experience, the authors argue that successful scaling up will not be achieved by either public or private sector efforts alone. Rather, it will require both public and private efforts working together. This book demonstrates that the challenges to scaling up are complex and various, but ultimately surmountable. It provides an invaluable resource for development practitioners, analysts, and students on a topic that remains largely unexplored and poorly understood.

Environmental Information Management And Analysis Feb 09 2021 Most environmental studies are based upon data collected at fine spatial scales plots, sediments, cores, etc.. Furthermore, temporal scales of these studies have been relatively short days,

weeks, months and few studies have exceeded three years duration the typical funding cycle.; Despite this history, environmental scientists are now being called upon to extrapolate findings from "plot-level" studies to broader spatial scales and from short-term studies to longer temporal scales, up to decades for questions related to long-term processes such as global warming and the rise in sea level.; The complex questions being addressed internationally require that scientists take advantage of new technologies including remote sensing, geographic information systems GIS, and powerful climatic and environmental simulation models. As more environmental scientists begin to work at these broader spatial and temporal scales, and to utilize many of the newer technologies, they are recognising a whole new class of problems.; This book aims to address the most pertinent issues, and includes a comprehensive review of selected topics, case studies, and theoretical discussions, divided into seven sections each preceded by a brief introduction.

The Power of Scale: A Global History Approach Sep 30 2022

Throughout history, the natural human inclination to accumulate social power has led to growth and scale increases that benefit the few at the expense of the many. John Bodley looks at global history through the lens of power and scale theory, and draws on history, economics, anthropology, and sociology to demonstrate how individuals have been the agents of social change, not social classes. Filled with tables and data to support his argument, this book considers how increases in scale necessarily lead to an increasingly small elite gaining disproportionate power, making democratic control more difficult to achieve and maintain.

Global Energy and Water Cycle Experiment (GEWEX)

Continental-Scale International Project Aug 18 2021 Efforts to understand climate variability and predict future climate change have highlighted many aspects of the hydrologic cycle and the exchange of energy and water at the atmosphere-surface

interface as areas of critically needed study. The very nature of weather and climate demands that an international perspective and a comprehensive research approach be applied to understand these important issues. In response to this need, the international partners of the World Climate Research Program developed GEWEX (Global Energy and Water Experiment) as a major focus of international study. As the first of five continental-scale experiments, the GEWEX Continental Scale International Project (GCIP) was established to quantitatively assess the hydrologic cycle and energy fluxes of the Mississippi River basin. GCIP focuses on understanding the annual, interannual, and spatial variability of hydrology and climate within the Mississippi River basin; the development and evaluation of regional coupled hydrologic/atmospheric models; the development of data assimilation schemes; and the development of accessible, comprehensive databases. Improved water resource management on seasonal to interannual time scales is also a key GCIP goal. This book reviews the GCIP program, describes progress to date, and explores promising opportunities for future progress.

Interactive Governance for Small-Scale Fisheries Apr 01 2020

Drawing on more than 30 case studies from around the world, this book offers a multitude of examples for improving the governance of small-scale fisheries. Contributors from some 36 countries argue that reform, transformation and innovation are vital to achieving sustainable small-scale fisheries - especially for mitigating the threats and vulnerabilities of global change. For this to happen, governing systems must be context-specific and the governability of small-scale fisheries properly assessed. The volume corresponds well with the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries adopted in 2014, spearheaded by the United Nations Food and Agriculture Organization (FAO). These affirm the importance of small-scale fisheries for food security, nutrition, livelihoods, rural development and poverty reduction. The book arises from the

project Too Big To Ignore: Global Partnership for Small-Scale Fisheries Research (TBTI). "A nuanced, diverse, vibrant and local-specific collection of essays - just as the small-scale fisheries around the world - dealt with by this versatile array of authors. Following on the heels of the recently adopted FAO Small-Scale Fisheries Guidelines, here is an erudite compendium which I heartily recommend to policy makers, academics and activists who wish to come to terms with the complex issue of governance of this important field of human activity." John Kurien - Founding Member of the International Collective in Support of Fishworkers (ICSF), and Former Professor, Centre for Development Studies, Trivandrum, India "Likely to become a classic in its field, this book is about small-scale fisheries and interactive governance - governance which is negotiated, deliberated upon, and communicated among stakeholders who often share governing responsibilities. The authors show that interactive governance is not just a normative theory but a phenomenon that can be studied empirically, here with 34 case studies from as many countries around the world, north and south, east and west. Such "force of example" enables the editors to put together well-developed arguments and sometimes surprising conclusions about the way ahead. A must-read for managers, practitioners, stakeholders, and students!" Fikret Berkes - University of Manitoba, Canada, and author of Coasts for People

Urban Poverty in the Global South Oct 20 2021 This is compounded by the lack of voice and influence that low income groups have in these official spheres.

Levels of Corporate Globalization Aug 06 2020 This book presents a new and practical segmentation approach to be used in global customer management in the form of a scale by which to measure the level of corporate globalization. This is a tool that will help companies segment their customers and enable them to adapt customer management strategies when dealing with increasingly global customers. This in turn helps determine the

company's own strategic position, thereby enhancing corporate performance. MARKET 1: Academics, Researchers, Libraries and post-graduate students interested in customer management and strategy MARKET 2: Practitioners interested in customer management and strategy

Deciphering the Global Nov 01 2022 Saskia Sassen is Ralph Lewis Professor of Sociology at the University of Chicago and Professor of Sociology at the London School of Economics.

Bridging Scales and Knowledge Systems Jul 17 2021 Bridging the gap between local knowledge and western science is essential to understanding the world's ecosystems and the ways in which humans interact with and shape those ecosystems. This book brings together a group of world-class scientists in an unprecedented effort to build a formal framework for linking local and indigenous knowledge with the global scientific enterprise. Contributors explore the challenges, costs, and benefits of bridging scales and knowledge systems in assessment processes and in resource management. Case studies look at a variety of efforts to bridge scales, providing important lessons concerning what has worked, what has not, and the costs and benefits associated with those efforts. Drawing on the groundbreaking work of the Millennium Eco-system Assessment, *Bridging Scales and Knowledge Systems* will be indispensable for future efforts to conduct ecosystem assessments around the world.

Large-Scale Ecology: Model Systems to Global Perspectives Nov 20 2021 *Advances in Ecological Research* is one of the most successful series in the highly competitive field of ecology. This thematic volume focuses on large scale ecology, publishing important reviews that contribute to our understanding of the field. Presents the most updated information on the field of large scale ecology, publishing topical and important reviews Provides all information that relates to a thorough understanding of the field Includes data on physiology, populations, and communities of plants and animals

The Power of Scale May 27 2022 Drawing on history, economics, anthropology and sociology, the author argues that individuals, not social classes, have been the agents of social change. He looks at how increases in scale necessarily lead to an increasingly small elite gaining disproportionate power.

Scales of Governance and Indigenous Peoples' Rights Jan 29 2020

This book takes an interdisciplinary approach to the complicated power relations surrounding the recognition and implementation of Indigenous Peoples' rights at multiple scales. The adoption of the United Nations Declaration on the Rights of Indigenous Peoples in 2007 was heralded as the beginning of a new era for Indigenous Peoples' participation in global governance bodies, as well as for the realization of their rights - in particular, the right to self-determination. These rights are defined and agreed upon internationally, but must be enacted at regional, national, and local scales. Can the global movement to promote Indigenous Peoples' rights change the experience of communities at the local level? Or are the concepts that it mobilizes, around rights and political tools, essentially a discourse circulating internationally, relatively disconnected from practical situations? Are the categories and processes associated with Indigenous Peoples simply an extension of colonial categories and processes, or do they challenge existing norms and structures? This collection draws together the works of anthropologists, political scientists, and legal scholars to address such questions. Examining the legal, historical, political, economic, and cultural dimensions of the Indigenous Peoples' rights movement, at global, regional, national, and local levels, the chapters present a series of case studies that reveal the complex power relations that inform the ongoing struggles of Indigenous Peoples to secure their human rights. The book will be of interest to social scientists and legal scholars studying Indigenous Peoples' rights, and international human rights movements in general.

Deciphering the Global Aug 30 2022 Relocates the terms of

debate surrounding globalization from the heights of global markets, states, and international corporations to the messier, more complex ground of the local, where broad globalizing trends are negotiated in interesting and often unexpected ways. This book employs ethnographies from the United States to Europe and Asia.

Local Politics, Global Impacts Jun 15 2021 Bringing together internationally renowned as well as emerging scholars, this book presents concrete case studies framed by theoretical concern with the issue of scale. It demonstrates that a diverse array of theoretical, methodological and empirical perspectives can productively converge on a common set of problems related to social, temporal and spatial scales and contemporary globalization. *Local Politics, Global Impacts* will stimulate empirical and theoretical research that focuses on understanding how political concepts, practices, and instruments translate across scales, and contribute to the emergence of a self-aware community of scholars and practitioners focusing explicitly on modelling the dynamics of local-regional-global interactions.

The Institutional Dimensions of Environmental Change Oct 27 2019 A study that lays the foundation for cumulative research on the roles institutions play in causing and confronting environmental changes.

Scale Apr 25 2022 Geographical scale is a central concept enabling us to make sense of the world we inhabit. Amongst other things, it allows us to declare one event or process a national one and another a global or regional one. However, geographical scales and how we think about them are profoundly contested, and the spatial resolution at which social processes take place - local, regional or global - together with how we talk about them has significant implications for understanding our world. *Scale* provides a structured investigation of the debates concerning the concept of scale and how various geographical scales have been thought about within critical social theory. Specifically, the

author examines how the scales of the body, the urban, the regional, the national, and the global have been conceptualized within Geography and the social sciences more broadly. The first part of the book provides a comprehensive overview of how different theoretical perspectives have regarded scale, especially debates over whether scales are real things or merely mental contrivances and/ or logical devices with which to think, as well as the consequences of thinking of them in areal versus in networked terms. The subsequent five chapters of the book then each takes a particular scale: the body; the urban; the regional; the national; the global and explores how it has been conceptualized and represented discursively for political and other purposes. A brief conclusion draws the book together by posing a number of questions about scale which emerge from the foregoing discussion. The first single-author volume ever written on the subject of geographical scale, this book provides a unique overview in pushing understandings of scale in new and original directions. The accessible text is complimented by didactic boxes, and *Scale* serves as a valuable pedagogical reference for undergraduate and postgraduate audiences wishing to become familiar with such theoretical issues.

Scales and Global Change Jul 29 2022 The global environment is being significantly affected by human activity. Changes in vegetation cover will affect the global hydrological cycle, production of "greenhouse gases" will lead to climate changes, changes in atmospheric chemistry can have drastic effects on terrestrial and freshwater ecosystems, and man-made chemicals decrease the Antarctic ozone layer. In order to address these global issues in a scientifically meaningful way, a new earth system science is needed, which takes a truly multi-disciplinary approach. However, when linking observations from different spatial and temporal scales, fundamental problems are encountered. If the International Geosphere-Biosphere Programme: a Study of Global Change is to be successful, scale

problems have to be faced and new approaches developed. This book is the first to address scaling problems both within individual disciplines and between disciplines, and represents an important first step in developing strategies for "Global Change" studies.

Mechanisms of Global Climate Change at Millennial Time Scales
Jun 27 2022 Contributors describe the current understanding of abrupt climate variations that have occurred at millennial to submillennial time scales, events now recognized as characteristics of the global climate during the last glaciation. Subjects covered include analysis of modern climate and ocean dynamics, paleoclimate reconstructions derived from the marine, terrestrial and ice core records, and paleoclimate modeling studies. The breadth of global paleoclimate knowledge presented here provides information required to answer many questions and provides a road map to address remaining problems. Most material is from a June 1998 conference. Lacks a subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Constant-Scale Natural Boundary Mapping to Reveal Global and Cosmic Processes
Sep 26 2019 Whereas conventional maps can be expressed as outward-expanding formulae with well-defined central features and relatively poorly defined edges, Constant Scale Natural Boundary (CSNB) maps have well-defined boundaries that result from natural processes and thus allow spatial and dynamic relationships to be observed in a new way useful to understanding these processes. CSNB mapping presents a new approach to visualization that produces maps markedly different from those produced by conventional cartographic methods. In this approach, any body can be represented by a 3D coordinate system. For a regular body, with its surface relatively smooth on the scale of its size, locations of features can be represented by definite geographic grid (latitude and longitude) and elevation, or deviation from the triaxial ellipsoid defined surface. A continuous surface on this body can be segmented, its

distinctive regional terranes enclosed, and their inter-relationships defined, by using selected morphologically identifiable relief features (e.g., continental divides, plate boundaries, river or current systems). In this way, regions of distinction on a large, essentially spherical body can be mapped as two-dimensional 'facets' with their boundaries representing regional to global-scale asymmetries (e.g., continental crust, continental and oceanic crust on the Earth, farside original thicker crust and nearside thinner impact punctuated crust on the Moon). In an analogous manner, an irregular object such as an asteroid, with a surface that is rough on the scale of its size, would be logically segmented along edges of its impact-generated faces. Bounded faces are imagined with hinges at occasional points along boundaries, resulting in a foldable 'shape model.' Thus, bounded faces grow organically out of the most compelling natural features. Obvious boundaries control the map's extremities, and peripheral regions are not dismembered or grossly distorted as in conventional map projections. 2D maps and 3D models grow out of an object's most obvious face or terrane 'edges,' instead of arbitrarily by imposing a regular grid system or using regularly shaped facets to represent an irregular surface.

Corporate Compliance on a Global Scale Jul 25 2019 This edited volume presents an innovative and critical analysis of corporate compliance from an interdisciplinary and international perspective. It defines the historical framework and the various roles played by corporate compliance in today's context. It questions how different cultures affect economic behaviors and under which conditions the individual choices may be directed toward law-abiding behavior. Examining corporate compliance as a tool of criminal and regulatory policy strategies in different countries and sectors, this book also aims to provide a picture of the dimension and scope of the public-private partnership, focusing on the prevention and detection of corporate crimes. It

analyzes the effects of corporate compliance on the internal organization in terms of cost-benefit assessment, as well as the opportunities in technical innovation for detecting and controlling risk.

Economy-Wide Modeling of Water at Regional and Global Scales

May 03 2020 This book deals with the economic modelling of water at the global, national and sub-national levels. It presents a multi-faceted analysis and, while it outlines the theories behind various models, its main purpose is to analyse policy issues and present insights arising from modelling, including a chapter analysing the macroeconomic implications of climate change. Arguably the most compelling reason for publishing a book on the economic modelling of water arises from the fact that agriculture accounts for approximately 70% of water used for economic purposes, while only contributing 4% of global income. Given that water is an essential commodity, this discrepancy may in part be symptomatic of an undervaluation of water due to immature and incomplete markets. In turn, this undervaluation has led to an ongoing misallocation of water. When economic models include water accounts that feed into production functions, they model impacts on the marginal product of water. Policies that improve the link between the marginal product and price of water will improve water allocation, while advanced economic models such as those presented here can enhance our ability to explore the possible impacts of improved policy.

The Late Neogene Sep 06 2020

Interactions Between Water-bodies and Atmosphere at Regional to Global Scales Aug 25 2019

Integrative Study of the Mean Sea Level and Its Components Sep 18 2021 This volume presents the most recent results of global mean sea level variations over the satellite altimetry era (starting in the early 1990s) and associated contributions, such as glaciers and ice sheets mass loss, ocean thermal expansion, and land water storage changes. Sea level is one of the best indicators of

global climate changes as it integrates the response of several components of the climate system to external forcing factors (including anthropogenic forcing) and internal climate variability. Providing long, accurate records of the sea level at global and regional scales and of the various components causing sea level changes is of crucial importance to improve our understanding of climate processes at work and to validate the climate models used for future projections. The Climate Change Initiative project of the European Space Agency has provided a first attempt to produce consistent and continuous space-based records for several climate parameters observable from space, among them sea level. This book presents current knowledge of the sea level budget over the altimetry era and 20th century. Previously published in *Surveys in Geophysics*, Volume 38, Issue 1, 2017 *Resource Peripheries in the Global Economy* Mar 13 2021 This book discusses the conditions that underpin configuration of specific places as resource peripheries and the consequences that such a socio-spatial formation involves for those places. The book thereby provides an interdisciplinary approach underpinned by economic geography, political ecology, resource geography, development studies and political geography. It also discusses the different technological, political and economic changes that make the ongoing production of resource peripheries a distinctive socio-spatial formation under the global economy. Through a global and interdisciplinary perspective that uncovers ongoing political processes, socio-economic changes and socio-ecological dynamics at resource peripheries, this book argues that it is critical to take a more profound appraisal about the socio-spatial processes behind the contemporary way in which capitalism is appropriating and transforming nature.

Neither Vertical Nor Horizontal Nov 08 2020 How do we organize in a world after both Occupy and the Sanders campaign? A decade ago, a wave of mass mobilisations described as "horizontal" and "leaderless" swept the planet, holding the

promise of real democracy and justice for the 99%. Many saw its subsequent ebb as proof of the need to go back to what was once called "the question of organisation". For something so often described as essential, however, political organisation remains a surprisingly under-theorised field. In this book, Rodrigo Nunes proposes to remedy that lack by starting again from scratch. Redefining the terms of the problem, he rejects the confusion between organisation and any of the forms it can take, such as the party, and argues that organisation must be understood as always supposing a diverse ecology of different initiatives and organisational forms. Drawing from a wide array of sources and traditions that include cybernetics, poststructuralism, network theory and Marxism, Nunes develops a grammar that eschews easy oppositions between "verticalism" and "horizontalism", centralisation and dispersion, and offers a fresh approach to enduring issues like spontaneity, leadership, democracy, strategy, populism, revolution, and the relationship between movements and parties.

Research Handbook on Money Laundering Apr 13 2021 Although the practice of disguising the illicit origins of money dates back thousands of years, the concept of money laundering as a multidisciplinary topic with social, economic, political and regulatory implications has only gained prominence since the 1980s. This groundbreaking volume offers original, state-of-the-art research on the current money laundering debate and provides insightful predictions and recommendations for future developments in the field. The contributors to this volume academics, practitioners and government representatives from around the world offer a number of unique perspectives on different aspects of money laundering. Topics discussed include the history of money laundering, the scale of the problem, the different types of money laundering, the cost to the private sector, and the effectiveness of anti-money laundering policies and legislation. The book concludes with a detailed and insightful

synthesis of the problem and recommendations for additional steps to be taken in the future. Students, professors and practitioners working in economics, banking, finance and law will find this volume a comprehensive and invaluable resource.

Speed & Scale Dec 22 2021 #1 bestselling author and acclaimed venture capitalist John Doerr reveals a sweeping action plan to conquer humanity's greatest challenge: climate change. In 2006, John Doerr was moved by Al Gore's *An Inconvenient Truth* and a challenge from his teenage daughter: "Dad, your generation created this problem. You better fix it." Since then, Doerr has searched for solutions to this existential problem-as an investor, an advocate and a philanthropist. Fifteen years later, despite breakthroughs in batteries, electric vehicles, plant-based proteins and solar and wind power, global warming continues to get worse. Its impact is all around us: droughts, floods, wildfires, the melting of the polar ice caps. Our world is squarely in a climate crisis and on the brink of a climate disaster. Yet despite our state of emergency, climate change has yet to be tackled with the urgency and ambition it demands. More than ever, we need a clear course of action. Fueled by a powerful tool called Objectives and Key Results (OKRs), *SPEED & SCALE* offers an unprecedented global plan to cut greenhouse gas emissions before it's too late. Used by Google, Bono's ONE foundation and thousands of startups the world over, OKRs have scaled ideas into achievements that changed the world. With clear-eyed realism and an engineer's precision, Doerr identifies the measurable OKRs we need to reduce emissions across the board and to arrive by 2050 at net zero-the point where we are no longer adding to the heat-trapping carbon in the atmosphere. By turns pragmatic and inspiring, *SPEED & SCALE* intersperses Doerr's wide-ranging analysis with firsthand accounts from Jeff Bezos, Christiana Figueres, Al Gore, Mary Barra, Bill Gates, and other intrepid policy leaders, entrepreneurs, scientists and activists. This book is a launchpad for leaders of all kind, for anyone anywhere who can

move others to act with them. With a definitive action plan, the latest science and a rising climate movement on our side, we can still reach net zero before it is too late. But as Doerr reminds us, there is no more time to waste. _____ 'A critical blueprint for anyone looking to take concrete steps to reach net-zero emissions.' Al Gore, former U.S. Vice President 'A practical guide for both public and private sector participation in decarbonizing the global economy, a task as challenging as it is urgent.' Christiana Figueres, former executive secretary of the UN Climate Change Convention 'A comprehensive plan to tackle one of the most vexing challenges in human history.' Jim Collins, author of Good to Great and Built to Last

Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale

Dec 10 2020 An advanced exploration of water-rock interactions Based on the author's fifteen years of teaching and tried-and-tested experiences in the classroom, here is a comprehensive exploration of water-rock interactions. Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W-R interactions such as nanoparticles, geomicrobiology, and climate change. Providing basic conceptual understanding along with more complex subject matter, Professor Patricia Maurice encourages students to look beyond the text to ongoing research in the field. Designed to engage the learner, the book features: Numerous case studies to contextualize concepts Practice and thought questions at the end of each chapter Broad coverage from basic theory to cutting-edge topics such as nanotechnology Both basic and applied science This text goes beyond W-R interactions to touch on a broad range of environmental disciplines. While written for advanced undergraduate and graduate students primarily in geochemistry and soil chemistry, Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale will serve the needs of such

diverse fields as environmental engineering, hydrogeology, physics, biology, and environmental chemistry.

Economy-wide Modeling of Water at Regional and Global Scales

May 15 2021 This book deals with the economic modelling of water at the global, national and sub-national levels. It presents a multi-faceted analysis and, while it outlines the theories behind various models, its main purpose is to analyse policy issues and present insights arising from modelling, including a chapter analysing the macroeconomic implications of climate change. Arguably the most compelling reason for publishing a book on the economic modelling of water arises from the fact that agriculture accounts for approximately 70% of water used for economic purposes, while only contributing 4% of global income. Given that water is an essential commodity, this discrepancy may in part be symptomatic of an undervaluation of water due to immature and incomplete markets. In turn, this undervaluation has led to an ongoing misallocation of water. When economic models include water accounts that feed into production functions, they model impacts on the marginal product of water. Policies that improve the link between the marginal product and price of water will improve water allocation, while advanced economic models such as those presented here can enhance our ability to explore the possible impacts of improved policy.

Resource Peripheries in the Global Economy Oct 08 2020

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political processes, socio-economic changes and socio-ecological dynamics at resource peripheries, this book argues that it is critical to take a more profound appraisal about the socio-spatial processes behind the contemporary way in which capitalism is appropriating and transforming nature.

Dynamics of Mercury Pollution on Regional and Global Scales

Mar 25 2022 This book provides a comprehensive overview of the different dynamic patterns involved in the redistribution of mercury in the global environment, and its impact on human health and ecosystems. Increasing mercury usage and the lack of emission control policy, especially in fast developing countries, represent a complex environmental and political issue that can only benefit from more accurate measurement.

Geographies of Power Jul 05 2020 At a time when references to things 'global' have gained more currency than ever, this book explores the nexus of power and space behind the politics of geographical scale. Explores the nexus of power and space behind the rescaling of contemporary social, economic and political life. Organized into three sections on theorizing scale, the discourses and rhetorics of scale, and scales of activism. Will stimulate discussion about how conceptions and visions of scale inform all aspects of social life.

The Nitrogen Cycle at Regional to Global Scales Feb 21 2022 This issue is the final report from the International SCOPE Project on Nitrogen Transport and Transformations: A Regional and Global Analysis. SCOPE (the Scientific Committee on Problems of the Environment, ICSU) authorized the Nitrogen Project as an 8-year effort between 1994 and 2002 because of the need to better understand how humans have altered nitrogen cycling globally and at the scale of large regions. Human activity has more than doubled the rate of formation of reactive nitrogen on the land surface of the earth, and the nitrogen cycle continues to accelerate. The distribution of this reactive nitrogen is not uniform, though, and some regions such as Europe and Asia have

seen massive increases in reactive nitrogen, while other regions have seen little change. The SCOPE Nitrogen Project has synthesized detailed information on the nature of the human alteration of the nitrogen cycle through a series of workshops over the past 8 years. These cumulatively have involved over 250 of previous workshops scientists from over 20 different nations. The results have been published in a series of special journal issues and reports that synthesize information on nitrogen in the North Atlantic Ocean and its watersheds (Howarth 1996), nitrogen cycling in Asia (Hong-Chi Lin et al. 1996; Mosier et al. 1996).

Transnational Audiences Dec 30 2019 In an interactive and densely connected world, transnational communication has become a central feature of everyday life. Taking account of a variety of media formats and different regions of the world, Adrian Athique provides a much-needed critical exploration of conceptual approaches to media reception on a global scale. Engaging both the historical foundations and contemporary concerns of audience research, Athique prompts us to reconsider our contemporary media experience within a transnational frame. In the process, he provides valuable insights on culture and belonging, power and imagination. Beautifully written and strongly argued, *Transnational Audiences: Media Reception on a Global Scale* will be essential reading for students and teachers of global media, culture and communications.

The Tumultuous Politics of Scale Nov 28 2019 "Contemporary politics, this book contends, depend upon the turbulent struggles and strategies around scale. Consisting of contributions from anthropologists, geographers and cultural studies scholars, this volume explores theoretical issues around contested temporal and spatial scales, and around variations in scale from the body to the global"--

Creating New Learning Experiences on a Global Scale Mar 01 2020 This book constitutes the refereed proceedings of the Second European Conference on Technology Enhanced Learning,

EC-TEL 2007, held in Crete, Greece in September 2007. The papers presented were carefully reviewed and selected from 116 submissions. The conference provides a unique forum for all research related to technology-enhanced learning, as well as its interactions with knowledge management, business processes and work environments.

Ecosystem Function in Savannas Jan 11 2021 Fascinating and diverse, savanna ecosystems support a combination of pastoral and agropastoral communities alongside wild and domestic herbivores that can be found nowhere else. This diversity has made the study of these areas problematic. Ecosystem Function in Savannas: Measurement and Modeling at Landscape to Global Scales addresses some of the discontinuities in the treatment of savannas by the scientific community and documents a range of measurements, methods, technologies, applications, and modeling approaches. Based on contributions from leading authorities and experts on savanna systems worldwide, the book describes the global savanna biome in terms of its broad ecological properties, temporal dynamics, disturbance levels, and human dimensions. The text examines carbon, water, energy, and trace gas fluxes for major global savanna regions. It looks at quantitative surface properties of savannas that can be retrieved using remote sensing and numerical approaches used to explore savanna dynamics. The authors also discuss how savanna modeling and measurement approaches might be unified. By presenting this confluence of information in a single resource, the book provides a platform for examining synergies, connections, integrative opportunities, and complementarities among approaches and data sources. This information can then be used to harmonize measurement and modeling methods among scales and across disciplinary boundaries. The book builds a bridge across the markedly different perspectives on savannas by which ecologists, biogeochemists, remote sensors, geographers, anthropologists, and modelers approach their science.

Application of Satellite Gravimetry to Mass Transports on a Global Scale and the Tibetan Plateau

Jun 23 2019 This thesis provides multidisciplinary perspectives on changes in global mass transports, especially in the global water cycle. It investigates the current time-varying states regarding global sea level, terrestrial water storage, mountain glacier mass and highland crustal deformation, drawing on fifteen years of satellite gravimetry observation to do so. The results reveal tremendous changes in various aspects of the global environment, which are due to both anthropogenic and natural factors. Further, the research presented here sheds new light on underlying connections and mechanisms in the global mass transport system.

Aerosol-Cloud Interactions from Urban, Regional, to Global Scales

Jan 23 2022 The studies in this dissertation aim at advancing our scientific understandings about physical processes involved in the aerosol-cloud-precipitation interaction and quantitatively assessing the impacts of aerosols on the cloud systems with diverse scales over the globe on the basis of the observational data analysis and various modeling studies. As recognized in the Fifth Assessment Report by the Intergovernmental Panel on Climate Change, the magnitude of radiative forcing by atmospheric aerosols is highly uncertain, representing the largest uncertainty in projections of future climate by anthropogenic activities. By using a newly implemented cloud microphysical scheme in the cloud-resolving model, the thesis assesses aerosol-cloud interaction for distinct weather systems, ranging from individual cumulus to mesoscale convective systems. This thesis also introduces a novel hierarchical modeling approach that solves a long outstanding mismatch between simulations by regional weather models and global climate models in the climate modeling community. More importantly, the thesis provides key scientific solutions to several challenging questions in climate science, including the global impacts of the Asian pollution. As scientists wrestle with the complexities of

climate change in response to varied anthropogenic forcing, perhaps no problem is more challenging than the understanding of the impacts of atmospheric aerosols from air pollution on clouds and the global circulation.