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KEY=ENVIRONMENTAL - GARNER REGINA

Environmental Transformations

A Geography of the Anthropocene

Routledge From the depths of the oceans to the highest reaches of the atmosphere, the human impact on the environment is significant and undeniable. These forms of global and local environmental change collectively appear to signal the arrival of a new geological epoch: the Anthropocene. This is a geological era defined not by natural environmental fluctuations or meteorite impacts, but by collective actions of humanity. Environmental Transformations offers a concise and accessible introduction to the human practices and systems that sustain the Anthropocene. It combines accounts of the carbon cycle, global heat balances, entropy, hydrology, forest ecology and pedology, with theories of demography, war, industrial capitalism, urban development, state theory and behavioural psychology. This book charts the particular role of geography and geographers in studying environmental change and its human drivers. It provides a review of critical theories that can help to uncover the socio-economic and political factors that influence environmental change. It also explores key issues in contemporary environmental studies, such as resource use, water scarcity, climate change, industrial pollution and deforestation. These issues are 'mapped' through a series of geographical case studies to illustrate the particular value of geographical notions of space, place and scale, in uncovering the complex nature of environmental change in different socio-economic, political and cultural contexts. Finally, the book considers the different ways in which nations, communities and individuals around the world are adapting to environmental change in the twenty-first century. Particular attention is given throughout to the uneven geographical opportunities that different communities have to adapt to environmental change and to the questions of social justice this situation raises. This book encourages students to engage in the scientific uncertainties that surround the study of environmental change, while also discussing both pessimistic and more optimistic views on the ability of humanity to address the environmental challenges of our current era.

Governing the Anthropocene

Novel Ecosystems, Transformation and Environmental Policy

Springer Nature This book focuses on the present and future challenges of managing ecosystem transformation on a planet where human impacts are pervasive. In this new epoch, the Anthropocene, the already rapid rate of species loss is amplified by climate change and other stress factors, causing transformation of highly-valued landscapes. Many locations are already transforming into novel ecosystems, where new species, interactions, and ecological functions are creating landscapes unlike anything seen before. This has sparked contentious debate not just about science, but about decision-making, responsibility, fairness, and human capacity to intervene. Clement argues that the social and ecological reality of the Anthropocene requires modernised governance and policy to confront these new challenges and achieve ecological objectives. There is a real opportunity to enable society to cope with transformed ecosystems by changing governance, but this is notoriously difficult. Aimed at anyone involved in these conversations, be those researchers, practitioners, decision makers or students, this book brings together diffuse research exploring how to confront institutional change and ecological transformation in different

contexts, and provides insight into how to translate governance concepts into productive pathways forward.

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Futures: Imagining Socioecological Transformation

Routledge *Futures: Imagining Socioecological Transformation* brings together leading scholars to explore how we might know, enact, and struggle for, the conjoined social and ecological transformations we need to achieve just and sustainable futures. The question of transformation, and how it might be achieved, is explored across a variety of topics and geographical sites, and through heterodox analytical and theoretical approaches, in a collective effort to move beyond a form of critique that hands down judgements, to one that brings new ideas and new possibilities to life. Chapters are lively and original engagements with concrete situations that sparkle with creativity. Together, they add up to an impressive study of how to live, and what to struggle for, in the complex socioecological landscapes of the Anthropocene. This book was previously published as a special issue of

the Annals of the Association of American Geographers.

The STEAM Revolution

Transdisciplinary Approaches to Science, Technology, Engineering, Arts, Humanities and Mathematics

Springer This volume is dedicated to collaborative research across STEM disciplines, the arts and humanities. It includes six sections, framed from a global perspective and exhibits contributions from key experts in the field, emerging scholarly voices, and STEAM practitioners. The added value of STEAM projects in research is highlighted in the first section of this book. Ranging from the spatial, medical and environmental humanities to heritage science, this section discusses the course and paths STEAM projects may evolve to in the near future. The second section features reflective essays by scientists and artists on the development of their research, their professional growth and personal learning experiences that the art/science collaborations have afforded their work and careers. Sections III and IV provides practical guidance and advice on facilitating STEAM teams and describe successful collaborative projects. By presenting the objectives and outcomes of relevant research, the chapters in these sections discuss the various steps taken by different teams to achieve project fruition. Paying particular attention to barriers inhibiting STEAM collaboration, these sections also explore the ways in which research teams were able to work effectively. The fifth section presents a review of policy issues and the potential impacts of STEAM research for administrators, funders and policy makers. In its pursuit for balance and inclusion, the volume concludes with a critical reflection on STEAM that argues a different perspective and will prove food for thought to readers.

Anthropocene

Oxford University Press Climate scientists, geologists, ecologists, and archaeologists recognize the profound effects of human activity on Earth, though whether and how this should be recognized as a formal geological epoch - the Anthropocene - remains under debate, Erle Ellis describes how the Anthropocene concept is affecting the sciences, humanities, and politics.

The International Encyclopedia of Geography

People, the Earth, Environment, and Technology. C-Cor

John Wiley & Sons

Ethics and Politics of Space for the Anthropocene

Edward Elgar Publishing Featuring an international, multidisciplinary set of contributors, this thought-provoking book reimagines established narratives of the Anthropocene to allow differences in regions and contexts to be taken seriously, emphasising the importance of localised and situated knowledge. It offers critical engagement with the debates around the Anthropocene by challenging the dominant techno-rational agenda that often prevails in socio-political and academic discussions.

The Politics of the Anthropocene

Oxford University Press, USA The Politics of the Anthropocene is a sophisticated yet accessible treatment of how human institutions, practices, and principles need to be re-thought in response to the challenges of the Anthropocene, the emerging epoch of human-induced instability in the Earth system and its life-support capacities. However, the world remains

stuck with practices and modes of thinking that were developed in the Holocene - the epoch of around 12,000 years of unusual stability in the Earth system, toward the end of which modern institutions such as states and capitalist markets arose. These institutions persist despite their potentially catastrophic failure to respond to the challenges of the Anthropocene, foremost among them a rapidly changing climate and accelerating biodiversity loss. The pathological trajectories of these institutions need to be disrupted by advancing ecological reflexivity: the capacity of structures, systems, and sets of ideas to question their own core commitments, and if necessary change themselves, while listening and responding effectively to signals from the Earth system. This book envisages a world in which humans are no longer estranged from the Earth system but engage with it in a more productive relationship. We can still pursue democracy, social justice, and sustainability - but not as before. In future, all politics should be first and foremost a politics of the Anthropocene. The arguments are developed in the context of issues such as climate change, biodiversity, and global efforts to address sustainability.

Handbook of Cities and the Environment

Edward Elgar Publishing With an ever-growing majority of the world's human population living in city spaces, the relationship between cities and nature will be one of the key environmental issues of the 21st Century. This book brings together a diverse set of authors to explore the various aspects of this relationship both theoretically and empirically. Rather than considering cities as wholly separate from nature, a running theme throughout the book is that cities, and city dwellers, should be characterized as intrinsic in the creation of specifically urban-generated 'socio-natures'.

A Billion Black Anthropocenes or None

U of Minnesota Press Rewriting the "origin stories" of the Anthropocene No geology is neutral, writes Kathryn Yusoff. Tracing the color line of the Anthropocene, *A Billion Black Anthropocenes or None* examines how the grammar of geology is foundational to establishing the extractive economies of subjective life and the earth under colonialism and slavery. Yusoff initiates a transdisciplinary conversation between feminist black theory, geography, and the earth sciences, addressing the politics of the Anthropocene within the context of race, materiality, deep time, and the afterlives of geology. *Forerunners* is a thought-in-process series of breakthrough digital works. Written between fresh ideas and finished books, *Forerunners* draws on scholarly work initiated in notable blogs, social media, conference plenaries, journal articles, and the synergy of academic exchange. This is gray literature publishing: where intense thinking, change, and speculation take place in scholarship.

The Anthropocene

Routledge This book is devoted to the Anthropocene, the period of unprecedented human impacts on Earth's environmental systems, and illustrates how Geographers envision the concept of the Anthropocene. This edited volume illustrates that geographers have a diverse perspective on what the Anthropocene is and represents. The chapters also show that geographers do not feel it necessary to identify only one starting point for the temporal onset of the Anthropocene. Several starting points are suggested, and some authors support the concept of a time-transgressive Anthropocene. Chapters in this book are organized into six sections, but many of them transcend easy categorization and could easily have fit into two or even three different sections. Geographers embrace the concept of the Anthropocene while defining it and studying it in a variety of ways that clearly show the breadth and diversity of the discipline. This book will be of great value to scholars, researchers, and students interested in geography, environmental humanities, environmental studies, and anthropology. The chapters in this book were originally published as a special issue of the journal *Annals of the American Association of Geographers*.

Weather, Climate, and the Geographical Imagination

Placing Atmospheric Knowledges

University of Pittsburgh Press As global temperatures rise under the forcing hand of humanity's greenhouse gas emissions, new questions are being asked of how societies make sense of their weather, of the cultural values, which are afforded to climate, and of how environmental futures are imagined, feared, predicted, and remade. *Weather, Climate, and Geographical Imagination* contributes to this conversation by bringing together a range of voices from history of science, historical geography, and environmental history, each

speaking to a set of questions about the role of space and place in the production, circulation, reception, and application of knowledges about weather and climate. The volume develops the concept of “geographical imagination” to address the intersecting forces of scientific knowledge, cultural politics, bodily experience, and spatial imaginaries, which shape the history of knowledges about climate.

Hope and Grief in the Anthropocene

Re-conceptualising human–nature relations

Routledge **The Anthropocene is a volatile and potentially catastrophic age demanding new ways of thinking about relations between humans and the nonhuman world. This book explores how responses to environmental challenges are hampered by a grief for a pristine and certain past, rather than considering the scale of the necessary socioeconomic change for a 'future' world. Conceptualisations of human-nature relations must recognise both human power and its embeddedness within material relations. Hope is a risky and complex process of possibility that carries painful emotions; it is something to be practised rather than felt. As centralised governmental solutions regarding climate change appear insufficient, intellectual and practical resources can be derived from everyday understandings and practices. Empirical examples from rural and urban contexts and with diverse research participants - indigenous communities, climate scientists, weed managers, suburban householders - help us to consider capacity, vulnerability and hope in new ways.**

The Climate of History in a Planetary Age

University of Chicago Press **For the past decade, historian Dipesh Chakrabarty has been one of the most influential scholars addressing the meaning of climate change. Climate change, he argues, upends long-standing ideas of history, modernity, and globalization. The burden of *The Climate of History in a Planetary Age* is to grapple with what this means and to confront humanities scholars with ideas they have been reluctant to reconsider—from the changed nature of human agency to a new acceptance of universals. Chakrabarty argues that we must see ourselves from two perspectives at once: the planetary and the global. This distinction is central to Chakrabarty’s work—the globe is a human-centric construction, while a planetary perspective intentionally decenters the human. Featuring wide-ranging excursions into historical and philosophical literatures, *The Climate of History in a Planetary Age* boldly considers how to frame the human condition in troubled times. As we open ourselves to the implications of the Anthropocene, few writers are as likely as Chakrabarty to shape our understanding of the best way forward.**

Alliances in the Anthropocene

Fire, Plants, and People

Springer Nature **This book explores how fire, plants and people coexist in the Anthropocene. In a time of dramatic environmental transformation, the authors examine how human impacts on the planetary system are being felt at all levels from the geological and the arboreal to the atmospheric. The book brings together the disciplines of human geography and art history to examine fire-plant-people alliances and multispecies world-making. The authors listen carefully to the narratives of bushfire survivors. They embrace the responses of contemporary artists, as practice becomes interwoven with fire as well as ruin and regrowth. Through visual, textual and felt ways of being, the chapters illuminate, illustrate, impress and imprint the imagined and actual agency of plants and people within a changing climate — from Aboriginal ecocultural burning to nuclear fire. By holding grief and enacting hope, the book shows how relationships come to be and are likely to change due to the interdependencies of fire, plants and people in the Anthropocene.**

Tourism and the Anthropocene

Routledge **This book brings the field of tourism into dialogue with what is captured under the varied notions of the Anthropocene. It explores issues and challenges which the Anthropocene may pose for tourism, and it offers significant insights into how it might reframe conceptual and empirical undertakings in tourism research. Furthermore, through the**

lens of the Anthropocene this book also spurs thinking of the role of tourism in relation to sustainable development, planetary boundaries, ethics (and what is framed as geo-ethics) and refocused tourism theory to make sense of tourism's earthly entanglements and thinking tourism beyond Nature-Society. The multidisciplinary nature of the material will appeal to a broad academic audience, such as those working in tourism, geography, anthropology and sociology.

Resilience in the Anthropocene

Governance and Politics at the End of the World

Routledge This book offers the first critical, multi-disciplinary study of how the concepts of resilience and the Anthropocene have combined to shape contemporary thought and governmental practice. Faced with the climate catastrophe of the Anthropocene, theorists and policymakers are increasingly turning to 'sustainable', 'creative' and 'bottom-up' imaginaries of governance. The book brings together cutting-edge insights from leading geographers, international relations scholars and philosophers to explore how the concepts of resilience and the Anthropocene challenge and transform prevailing understandings of Earth, space, time and knowledge, and how these transformations reshape governance, ethics and critique today. This book examines how the Anthropocene calls into question established categories through which modern societies have tended to make sense of the world and engage in critical reflection and analysis. It also considers how resilience approaches attempt to re-stabilize these categories - and the ethical and political effects that result from these resilience-based efforts. Offering innovative insights into the problem of how environmental change is known and governed in the Anthropocene, this book will be of interest to students in fields such as geography, international relations, anthropology, science and technology studies, sociology, and the environmental humanities.

Anthropocene Encounters: New Directions in Green Political Thinking

Cambridge University Press Explores the significance of the Anthropocene for environmental politics, analysing political concepts in view of contemporary environmental challenges.

Environment and Society

Socionatural Relations in the Anthropocene

Springer This short book sets out to explore the concept of nature in the context of a changing reality, in which the extent of our transformation of the environment has become evident: What is nature and to what extent has humanity transformed it? How do nature and society relate to one another? What does the idea of a sustainable society entail and how can nature be understood as a political subject? What is the Anthropocene and how does it affect nature as both an idea and a material entity? Has nature perhaps "ended?" In addressing these questions, the author delivers a concise but meaningful study of contemporary understandings of nature, one that goes beyond the limits posed by a single discipline. Adopting a truly comprehensive perspective, the work incorporates classical disciplines such as philosophy, evolutionary theory and the history of ideas; new and mixed approaches ranging from environmental sociology to neurobiology and ecological economics and the emerging area of the environmental humanities and represents a growing branch of political thought that views nature as a new political subject.

Fermented Landscapes

Lively Processes of Socio-Environmental Transformation

U of Nebraska Press Fermented Landscapes applies the concept of fermentation as a mechanism through which to understand and analyze processes of landscape change. This comprehensive conceptualization of "fermented landscapes" examines the excitement, unrest, and agitation evident across shifting physical-environmental and sociocultural

landscapes as related to the production, distribution, and consumption of fermented products. This collection includes a variety of perspectives on wine, beer, and cider geographies, as well as the geography of other fermented products, considering the use of "local" materials in craft beverages as a function of neolocalism and sustainability and the nonhuman elements of fermentation. Investigating the environmental, economic, and sociocultural implications of fermentation in expected and unexpected places and ways allows for a complex study of rural-urban exchanges or metabolisms over time and space--an increasingly relevant endeavor in socially and environmentally challenged contexts, global and local.

Geospatial Technologies in Geography Education

[Springer](#) This book addresses new pedagogies focusing on the use of geospatial technologies and geomedia in the classroom. Today, geospatial technologies are substantially influencing geography teaching and learning, particularly in secondary education. Web-GIS, virtual globes, storytelling, maps and apps for mobile devices are transforming the nature and design of geography curricula, instructional processes, didactics, resources and assessments. Undoubtedly, geography is among those school subjects that have benefited most from the implementation of new technologies in the classroom. Geospatial technologies can be used to develop inquiry-based learning or project-based learning pedagogies and help students to acquire spatial reasoning and spatial citizenship skills in the context of education for sustainable development. This book highlights a range of initiatives, projects and educational practices - from several European countries and settings - related to geospatial challenges in geography education. Given its scope, it will be equally appealing to scientists, students and teachers of geography and other fields using geospatial technologies and geomedia.

Research Handbook on Human Rights and the Environment

[Edward Elgar Publishing](#) Bringing together leading international scholars in the field, this Research Handbook interrogates, from various angles and positions, the fractious relationship between human rights and the environment and between human rights and environmental law.

Spatial transformation processes, strategies, research designs

[BoD - Books on Demand](#)

The Progressive Environmental Prometheans

Left-Wing Heralds of a "Good Anthropocene"

[Springer](#) This book is devoted to the exploration of environmental Prometheanism, the belief that human beings can and should master nature and remake it for the better. Meyer considers, among others, the question of why Prometheanism today is usually found on the political right while environmentalism is on the left. Chapters examine the works of leading Promethean thinkers of nineteenth and early and mid-twentieth century Britain, France, America, and Russia and how they tied their beliefs about the earth to a progressive, left-wing politics. Meyer reconstructs the logic of this "progressive Prometheanism" and the reasons it has vanished from the intellectual scene today. The Progressive Environmental Prometheans broadens the reader's understanding of the history of the ideas behind Prometheanism. This book appeals to anyone with an interest in environmental politics, environmental history, global history, geography and Anthropocene studies.

Anthropocene Ecologies

Entanglements of Tourism, Nature and Imagination

Routledge *Anthropocene Ecologies* brings political ecology and tourism studies to bear on the Anthropocene. Through a collective examination of political ecologies of the Anthropocene by leading scholars in anthropology, geography and tourism studies, the book addresses critical themes of gender, health, conservation, agriculture, climate change, disaster, coastal marine management and sustainability. Each chapter theoretically and empirically unravels entanglements of tourism, nature and imagination to expose the political-ecological drivers of the Anthropocene as a material and symbolic force and its deepening integration with tourism. Grounded in ethnographic and qualitative research, the volume is interdisciplinary in scope, yet linked in its shared focus on the political threat as well as the social potential of the Anthropocene and its imaginaries. This collection contributes to emerging scholarship on tourism, sustainability and global environmental change in the current geological epoch. *Anthropocene Ecologies* will be of great interest to political ecology focused scholars of tourism, socio-environmental change and the Anthropocene. The chapters were originally published as a special issue in the *Journal of Sustainable Tourism*.

Developing Earthly Attachments in the Anthropocene

Routledge This book explores the development and significance of an Earth-oriented progressive approach to fostering global wellbeing and inclusive societies in an era of climate change and uncertainty. *Developing Earthly Attachments in the Anthropocene* examines the ways in which the Earth has become a source of political, social, and cultural theory in times of global climate change. The book explains how the Earth contributes to the creation of a regenerative culture, drawing examples from the Netherlands and Iceland. These examples offer understandings of how legacies of non-respectful exploitative practices culminating in the rapid post-war growth of global consumption have resulted in impacts on the ecosystem, highlighting the challenges of living with planet Earth. The book familiarizes readers with the implied agencies of the Earth which become evident in our reliance on the carbon economy - a factor of modern-day globalized capitalism responsible for global environmental change and emergency. It also suggests ways to inspire and develop new ways of spatial sense making for those seeking earthly attachments. Offering novel theoretical and practical insights for politically active people, this book will appeal to those involved in local and national policy making processes. It will also be of interest to academics and students of geography, political science, and environmental sciences.

Global Insecurity

Futures of Global Chaos and Governance

Springer This innovative volume gathers some of the world's best scholars to analyse the world's collective international efforts to address globalised threats through global security governance. Addressing global and planetary forms of insecurity that include nuclear weapons, conventional arms, gender violence, climate change, disease, bio weapons, cyber-conflict, children in conflict, crimes against humanity, and refugees, this timely book critiques how they are addressed by global institutions and regimes, and advocates important conceptual, institutional, and policy reforms. This is an invaluable resource for students, scholars and policymakers in international health, security and development.

Urgency in the Anthropocene

MIT Press A proposal to reframe the Anthropocene as an age of actual and emerging coexistence with earth system variability, encompassing both human dignity and environmental sustainability. Is this the Anthropocene, the age in which humans have become a geological force, leaving indelible signs of their activities on the earth? The narrative of the Anthropocene so far is characterized by extremes, emergencies, and exceptions—a tale of apocalypse by our own hands. The sense of ongoing crisis emboldens policy and governance responses that challenge established systems of sovereignty and law. The once unacceptable—geoengineering technology, for example, or authoritarian decision making—are now anticipated and even demanded by some. To counter this, Amanda Lynch and Siri Veland propose a reframing of the Anthropocene—seeing it not as a race against catastrophe but as an age of emerging coexistence with earth system variability. Lynch and Veland examine the interplay between our new state of ostensible urgency and the means by which this urgency is identified and addressed. They examine how societies, including Indigenous societies, have understood such interplays; explore how extreme

weather and climate weave into the Anthropocene narrative; consider the tension between the short time scale of disasters and the longer time scale of sustainability; and discuss both international and national approaches to Anthropocene governance. Finally, they argue for an Anthropocene of coexistence that embraces both human dignity and sustainability.

The Wiley Blackwell Companion to Political Geography

[John Wiley & Sons](#) Originally published as: A companion to political geography.

Economic Geography

A Critical Introduction

[John Wiley & Sons](#) This volume in the celebrated Critical Introductions to Geography series introduces readers to the vibrant discipline of economic geography. The authors provide an original definition of the discipline, and they make a strong case for its vital importance in understanding the dynamic interconnections, movements, and emerging trends shaping our globalized world. Economic Geography addresses the key theories and methods that form the basis of the discipline, and describes its “communities of practice” and relations to related fields including economics and sociology. Numerous illustrative examples explore how economic geographers examine the world and how and why the discipline takes the forms it does, demonstrating the critical value of economic geography to making sense of globalization, uneven development, money and finance, urbanization, environmental change, and industrial and technological transformation. Engaging and thought-provoking, Economic Geography: A Critical Introduction is the ideal resource for students studying across a range of subject areas, as well as the general reader with an interest in world affairs and economics.

The Politics of Green Transformations

[Routledge](#) Multiple ‘green transformations’ are required if humanity is to live sustainably on planet Earth. Recalling past transformations, this book examines what makes the current challenge different, and especially urgent. It examines how green transformations must take place in the context of the particular moments of capitalist development, and in relation to particular alliances. The role of the state is emphasised, both in terms of the type of incentives required to make green transformations politically feasible and the way states must take a developmental role in financing innovation and technology for green transformations. The book also highlights the role of citizens, as innovators, entrepreneurs, green consumers and members of social movements. Green transformations must be both ‘top-down’, involving elite alliances between states and business, but also ‘bottom up’, pushed by grassroots innovators and entrepreneurs, and part of wider mobilisations among civil society. The chapters in the book draw on international examples to emphasise how contexts matter in shaping pathways to sustainability. Written by experts in the field, this book will be of great interest to researchers and students in environmental studies, international relations, political science, development studies, geography and anthropology, as well as policymakers and practitioners concerned with sustainability.

Global Environmental Constitutionalism in the Anthropocene

[Bloomsbury Publishing](#) There is persuasive evidence suggesting we are on the brink of human-induced ecological disaster that could change life on Earth as we know it. There is also a general consensus among scientists about the pace and extent of global ecological decay, including a realisation that humans are central to causing the global socio-ecological crisis. This new epoch has been called the Anthropocene. Considering the many benefits that constitutional environmental protection holds out in domestic legal orders, it is likely that a constitutionalised form of global environmental law and governance would be better able to counter the myriad exigencies of the Anthropocene. This book seeks to answer this central question: from the perspective of the Anthropocene, what is environmental constitutionalism and how could it be extrapolated to formulate a global framework? In answering this question, this book offers the first systematic conceptual framework for global environmental constitutionalism in the epoch of the Anthropocene.

Imagining Apocalyptic Politics in the Anthropocene

Routledge Bringing together scholars from English literature, geography, politics, the arts, environmental humanities and sociology, *Imagining Apocalyptic Politics in the Anthropocene* contributes to the emerging debate between bodies of thought first incepted by scholars such as Mouffe, Whyte, Kaplan, Hunt, Swyngedouw and Malm about how apocalyptic events, narratives and imaginaries interact with societal and individual agency historically and in the current political moment. Exploring their own empirical and philosophical contexts, the authors examine the forms of political acting found in apocalyptic imaginaries and reflect on what this means for contemporary society. By framing their arguments around either pre-apocalyptic, peri-apocalyptic or post-apocalyptic narratives and events, a timeline emerges throughout the volume which shows the different opportunities for political agency the anthropocenic subject can enact at the various stages of apocalyptic moments. Featuring a number of creative interventions exclusively produced for the work from artists and fiction writers who engage with the themes of apocalypse, decline, catastrophe and disaster, this innovative book will be of great interest to students and scholars of the politics of climate change, the environmental humanities, literary criticism and eco-criticism.

The Development of Russian Environmental Thought

Scientific and Geographical Perspectives on the Natural Environment

Routledge This book provides a comprehensive overview of the very rich thinking about environmental issues which has grown up in Russia since the nineteenth century, a body of knowledge and thought which is not well known to Western scholars and environmentalists. It shows how in the late nineteenth century there emerged in Russia distinct and strongly articulated representations of the earth's physical systems within many branches of the natural sciences, representations which typically emphasised the completely integrated nature of natural systems. It stresses the importance in these developments of V V Dokuchaev who significantly advanced the field of soil science. It goes on to discuss how this distinctly Russian approach to the environment developed further through the work of geographers and other environmental scientists down to the late Soviet period.

Terrestrial Transformations

A Political Ecology Approach to Society and Nature

Lexington Books Humanity's future may rest on how we deal with climate change, environmental problems, and their impacts on society. *Terrestrial Transformations: A Political Ecology Approach to Society and Nature* recognizes that such problems have social, political, and cultural contexts, and that politics, money, and power have physical impacts on nature and society that cannot be ignored. This book brings together a set of chapters that provide an overview of the political ecology approach, illustrating its theoretical underpinnings, central concepts, methods, and major interests. The authors examine the political contexts of a broad range of environmental and social problems, drawing attention to the political and economic forces driving environmental and ecological problems, how societies are transformed as they attempt to cope and adapt to a changing nature, and who pays the price.

Anthropocene: A Very Short Introduction

Oxford University Press The proposal that the impact of humanity on the planet has left a distinct footprint, even on the scale of geological time, has recently gained much ground. Global climate change, shifting global cycles of the weather, widespread pollution, radioactive fallout, plastic accumulation, species invasions, the mass extinction of species - these are just some of the many indicators that we will leave a lasting record in rock, the scientific basis for recognizing new time intervals in Earth's history. The Anthropocene, as the proposed new epoch has been named, is regularly in the news. Even with such robust evidence, the proposal to formally recognize our current time as the Anthropocene remains controversial both inside and outside the scholarly world, kindling intense debates. The reason is clear. The Anthropocene represents far more than just another interval of geologic

time. Instead, the Anthropocene has emerged as a powerful new narrative, a concept through which age-old questions about the meaning of nature and even the nature of humanity are being revisited and radically revised. This Very Short Introduction explains the science behind the Anthropocene and the many proposals about when to mark its beginning: the nuclear tests of the 1950s? The beginnings of agriculture? The origins of humans as a species? Erle Ellis considers the many ways that the Anthropocene's "evolving paradigm" is reshaping the sciences, stimulating the humanities, and foregrounding the politics of life on a planet transformed by humans. The Anthropocene remains a work in progress. Is this the story of an unprecedented planetary disaster? Or of newfound wisdom and redemption? Ellis offers an insightful discussion of our role in shaping the planet, and how this will influence our future on many fronts. **ABOUT THE SERIES:** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

International Encyclopedia of Human Geography

Elsevier **International Encyclopedia of Human Geography, Second Edition** embraces diversity by design and captures the ways in which humans share places and view differences based on gender, race, nationality, location and other factors—in other words, the things that make people and places different. Questions of, for example, politics, economics, race relations and migration are introduced and discussed through a geographical lens. This updated edition will assist readers in their research by providing factual information, historical perspectives, theoretical approaches, reviews of literature, and provocative topical discussions that will stimulate creative thinking. Presents the most up-to-date and comprehensive coverage on the topic of human geography Contains extensive scope and depth of coverage Emphasizes how geographers interact with, understand and contribute to problem-solving in the contemporary world Places an emphasis on how geography is relevant in a social and interdisciplinary context

Rediscovering the World

Map Transformations of Human and Physical Space

Springer Science & Business Media **'We need new maps'** is the central claim made in this book. In a world increasingly influenced by human action and interaction, we still rely heavily on mapping techniques that were invented to discover unknown places and explore our physical environment. Although the traditional concept of a map is currently being revived in digital environments, the underlying mapping approaches are not capable of making the complexity of human-environment relationships fully comprehensible. Starting from how people can be put on the map in new ways, this book outlines the development of a novel technique that stretches a map according to quantitative data, such as population. The new maps are called gridded cartograms as the method is based on a grid onto which a density-equalising cartogram technique is applied. The underlying grid ensures the preservation of an accurate geographic reference to the real world. It allows the gridded cartograms to be used as basemaps onto which other information can be mapped. This applies to any geographic information from the human and physical environment. As demonstrated through the examples presented in this book, the new maps are not limited to showing population as a defining element for the transformation, but can show any quantitative geospatial data, such as wealth, rainfall, or even the environmental conditions of the oceans. The new maps also work at various scales, from a global perspective down to the scale of urban environments. The gridded cartogram technique is proposed as a new global and local map projection that is a viable and versatile alternative to other conventional map projections. The maps based on this technique open up a wide range of potential new applications to rediscover the diverse geographies of the world. They have the potential to allow us to gain new perspectives through detailed cartographic depictions.