

Herve Le Treut Impacts Of Greenhouse Gases And Aerosol

This book is a broad and detailed case study of how journalists in more than 20 countries worldwide covered the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment (AR5) reports on the state of scientific knowledge relevant to climate change. Journalism, it demonstrates, is a key element in the transnational communication infrastructure of climate politics. It examines variations of coverage in different countries and locations all over the world. It looks at how IPCC scientists review the role of media, reflects on how media relate to decision-making structures and cultures, analyzes how key journalists reflect on the challenges of covering climate change, and shows how the message of IPCC was distributed in the global networks of social media.

Climate change is the most difficult threat facing humanity this century and negotiations to reach international agreement have so far foundered on deep issues of justice. Providing provocative and imaginative answers to key questions of justice, informed by political insight and scientific understanding, this book offers a new way forward.

□ Un spectre hante le monde : celui du changement climatique. Qu'en est-il vraiment ? Allons-nous véritablement vers un réchauffement

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global ? À quelle échéance ? Quelles en sont les causes ? Quelles en seront les conséquences sur notre vie et celle de nos enfants et petits-enfants ? Pour mieux comprendre les phénomènes qui donnent son visage au climat de la Terre ; pour faire le point des certitudes qui entourent la question de son altération durable ; pour réfléchir à une action concertée à l'échelle mondiale. Parce qu'il est peut-être encore temps... Jean-louis Fellous a présidé le Comité mondial des satellites d'observation de la Terre et est secrétaire du Comité national français des recherches sur les changements globaux. Il est également directeur des recherches océaniques à l'IFREMER.

Wherever the cutting edge of science goes, Michael Crichton is there. From dinosaur cloning to global warming, nanotechnology to time travel, animal behavior to human genetics, Crichton always takes us to the cutting edge of science and then pushes the envelope. The Science of Michael Crichton examines the amazing inventions of Crichton's books and lifts up the hood, revealing the science underneath. In intelligent and well-thought essays, scholars and experts decide what Crichton gets right and what he gets wrong. They examine which Crichton imaginings are feasible and which are just plain impossible. Scenarios examined include whether dinosaurs can be cloned, if nanotechnological particles can evolve

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intelligence, and if we can go back in time.

Mathematics of Planet Earth

The State of Economics, the State of the World

Working Group II Contribution to the IPCC Fifth Assessment Report

Impacts du changement climatique en Aquitaine

Handbook of Climate Change and Biodiversity

A Defense of the Free Market in a Time of Crisis (Large Print 16pt)

The Climate Modelling Primer

Under certain scenarios on the subject of CO₂ emissions, by the end of the century the

atmospheric concentration could triple its pre-

industrial level. The very large numerical models

intended to anticipate the corresponding climate

evolutions are designed and quantified from the

laws of physics. However, little is generally known

about these: genesis of clouds, terms of the

greenhouse effect, solar activity intervention, etc.

This book deals with the issue of climate modeling

in a different way: using proven techniques for

identifying black box-type models. Taking climate

observations from throughout the millennia, the

global models obtained are validated statistically

and confirmed by the resulting simulations. This

book thus brings constructive elements that can be

reproduced by anyone adept at numerical

simulation, whether an expert climatologist or not.

It is accessible to any reader interested in the

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issues of climate change.

Since the publication of the Stern Review, economists have started to ask more normative questions about climate change. Should we act now or tomorrow? What is the best theoretical carbon price to reach long-term abatement targets? How do we discount the long-term costs and benefits of climate change? This provocative book argues that these are the wrong sorts of questions to ask because they don't take into account the policies that have already been implemented. Instead, it urges us to concentrate on existing policies and tools by showing how the development of carbon markets could dramatically reduce world greenhouse gas (GHG) emissions, triggering policies to build a new low-carbon energy system while restructuring the way agriculture interacts with forests. This provides an innovative perspective on how a post-Kyoto international climate regime could emerge from agreements between the main GHG emitters capping their emissions and building an international carbon market.

What are the causes and consequences of climate change? When the scale is so big, can an individual make any difference? Documentary, diary, and masterwork graphic novel, this up-to-date look at our planet and how we live on it explains what global warming is all about. With the most

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complicated concepts made clear in a feat of investigative journalism by artist Philippe Squarzoni, Climate Changed weaves together scientific research, extensive interviews with experts, and a call for action. Weighing the potential of some solutions and the false promises of others, this groundbreaking work provides a realistic, balanced view of the magnitude of the crisis that An Inconvenient Truth only touched on. Climate Changed is printed on FSC-certified paper from responsibly-managed, environmentally-sound sources. Find teaching guides for Climate Changed and other titles at abramsbooks.com/resources. The Routledge Handbook of the History of Sustainability is a far-reaching survey of the deep and contemporary history of sustainability. This innovative resource will help to define the history of sustainability as an identifiable field. It provides a unique resource for advanced undergraduates, graduate students, and scholars, and delivers essential context for understanding the current state and future path of the sustainability movement. The history of sustainability is an increasingly important domain within the discipline of history, which draws on an interdisciplinary set of fields, ranging from energy studies, transportation, and urbanism to environmental history, economics, and philosophy. Key sections in this handbook cover the historiography of

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sustainability, resilience and collapse in historical societies, the deep roots of sustainability (seventeenth century to nineteenth century), the recent history of sustainability (twentieth century to present), and core issues and key debates in sustainability. This handbook is an invaluable research and teaching tool for those interested in the history and development of sustainability and an essential resource for the many sustainability studies programs that now exist in the world's universities.

*Media and Global Climate Knowledge
Canada after Keystone XL*

*Science, Economics and the Challenge of
Catastrophic Climate Change
An Unauthorized Exploration into the Real Science
Behind the Fictional Worlds of Michael Crichton
La nouvelle donne climatique
Hearing Before the Committee on Commerce,
Science, and Transportation, United States Senate,
One Hundred Seventh Congress, First Session, May
1, 2001*

Leading economists address the ongoing challenges to economics in theory and practice in a time of political and economic crises. More than a decade of financial crises, sovereign debt problems, political conflict, and rising xenophobia and protectionism has left the global economy unsettled and the ability of economics as a discipline to account for episodes of volatility uncertain. In this book, leading economists consider the state of their discipline in a

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world of ongoing economic and political crises. The book begins with three sweeping essays by Nobel laureates Kenneth Arrow (in one of his last published works), Amartya Sen, and Joseph Stiglitz that offer a summary of the theoretical foundations of modern economics—the twin pillars of general equilibrium theory and welfare economics. Contributors then turn to macroeconomic stabilization and growth and, finally, new areas of research that depart from traditional theory, methodology, and concerns: climate change, behavioral economics, and evolutionary game theory. The 2019 Nobel Prize laureates, Abhijit Banerjee, Esther Duflo, and Michael Kremer, contribute a paper on the use of randomized control trials in development economics. Contributors Philippe Aghion, Ingela Alger, Kenneth Arrow, Abhijit Banerjee, Kaushik Basu, Lawrence Blume, Guillermo Calvo, Francesco Caselli, Asli Demirgüç-Kunt, Shantayanan Devarajan, Esther Duflo, Samuel Fankhauser, James Foster, Varun Gauri, Xavier Gine, G el Giraud, Gita Gopinath, Robert Hockett, Karla Hoff, Ravi Kanbur, Aart Kraay, Michael Kremer, David McKenzie, C elestin Monga, Maurice Obstfeld, Hamid Rashid, Martin Ravallion, Amartya Sen, Luis Serv n, Hyun Song Shin, Nicholas Stern, Joseph Stiglitz, Cass Sunstein, Michael Toman, J rgen Weibull

Frequently presented as a historic last chance to set the world on a course to prevent catastrophic climate change, the 21st Conference of the Parties to the Climate convention (COP21) was a global summit of exceptional proportions. Bringing together negotiators, scientists, journalists and representatives of global civil society, it also constituted a privileged vantage point for the study of global environmental governance "in the making". This volume offers readers an original account of the current state of play in the field of global climate governance. Building upon a collaborative research project on COP21 carried out by a multidisciplinary team of twenty academics with recognised experience in the field of environmental governance, the book takes COP21 as an entry point to analyse ongoing transformations of global climate politics, and

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to scrutinise the impact of climate change on global debates more generally. The book has three key objectives: To analyse global climate governance through a combination of long-term analysis and on-sight observation; To identify and analyse the key spaces of participation in the global climate debate; To examine the "climatisation" of a series of crosscutting themes, including development, energy, security and migration. This book will be of great interest to students, scholars and policymakers of climate politics and governance, international relations and environmental studies.

Explores public and government involvement in combating global warming and reviews conservation programs developed by countries, international institutions, private organizations, and individuals.

This timely Research Handbook offers an insightful review of how legal systems Ð whether domestic, international or transnational Ð can and should adjust to fairly and effectively support loss and damage (L&D) claims in climate change law.Ê International contributors guide readers through a detailed assessment of the history and current state of L&D provisions under the UN climate regime and consider the opportunities to fund L&D claims both within and outside the UN climate system.Ê

Climate Change 2014 – Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Volume 2, Regional Aspects

Avis de tempêtes

Journalism and the IPCC

COP21 and the climatisation of global debates

JGOFS Report

Research Handbook on Climate Change Law and Loss & Damage Cumulated Index Medicus

This book comprehensively describes essential research and projects on climate change and biodiversity. Moreover, it includes contributions on

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how to promote the climate agenda and biodiversity conservation at the local level. Climate change as a whole and global warming in particular are known to have a negative impact on biodiversity in three main ways. Firstly, increases in temperatures are detrimental to a number of organisms, especially those in sensitive habitats such as coral reefs and rainforests. Secondly, the pressures posed by a changing climate may lead to sets of responses in areas as varied as phenology, range and physiology of living organisms, often leading to changes in their lifecycles (especially but not only in reproduction), losses in productivity or even death. In some cases, the very survival of very sensitive species may be endangered. Thirdly, the impacts of climate change on biodiversity will be felt in the short term with regard to some species and ecosystems, but also in the medium and long term in many biomes. Indeed, if left unchecked, some of these impacts may be irreversible. Many individual governments, financial institutes and international donors are currently spending billions of dollars on projects addressing climate change and biodiversity, but with little coordination. Quite often, the emphasis is on adaptation efforts, with little emphasis on the connections between physio-ecological changes and the lifecycles and metabolisms of fauna and flora, or the influence of poor governance on biodiversity. As such, there is a recognized need to not only better

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understand the impacts of climate change on biodiversity, but to also identify, test and implement measures aimed at managing the many risks that climate change poses to fauna, flora and micro-organisms. In particular, the question of how to restore and protect ecosystems from the impact of climate change also has to be urgently addressed. This book was written to address this need. The respective papers explore matters related to the use of an ecosystem-based approach to increase local adaptation capacity, consider the significance of a protected areas network in preserving biodiversity in a changing northern European climate, and assess the impacts of climate change on specific species, including wild terrestrial animals. The book also presents a variety of case studies such as the Yellowstone to Yukon Conservation Initiative, the effects of climate change on the biodiversity of Aleppo pine forest in Senalba (Algeria), climate change and biodiversity response in the Niger Delta region, and the effects of forest fires on the biodiversity and the soil characteristics of tropical peatlands in Indonesia. This is a truly interdisciplinary publication, and will benefit all scholars, social movements, practitioners and members of governmental agencies engaged in research and/or executing projects on climate change and biodiversity around the world. This latest Fifth Assessment Report of the

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Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy. Current climate models diverge in their assessment of global warming that will result from the anthropogenic increase in trace gases. This is because they differ in their representation of the hydrological cycle (water vapour, clouds, snow and sea ice, soil moisture) and because a direct validation in terms of sensitivity is not possible. Indirect methods and approaches are therefore necessary to verify the models efficiently. The book provides an overview on different validation approaches. The use of satellite data is particularly stressed.

In 2005, *The Woman at the Washington Zoo* was published to major critical acclaim. The late Marjorie Williams possessed "a special voice, one capable not just of canny political observations but of tenderness and bracing intimacy," observed the *New York Times Book Review*. Now, in a collection of profiles with the richness of short fiction, Williams limns the personalities that dominated politics and the media during the final years of the twentieth century. In these pages, Clark Clifford grieves "in his

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laborious baritone" a bank scandal's blow to his repu-
taaaaaay-shun. Lee Atwater likens himself to
Ulysses and pleads, "tah me to the mast!" Patricia
Duff sheds "precipitous tears" over her divorce from
Ronald Perelman, resembling afterwards "a garden
refreshed by spring rain." Reputation illuminates our
recent past through expertly drawn portraits of
powerful - and messily human - figures.

The Science of Michael Crichton

The Routledge Handbook of the Political Economy of
the Environment

Climate Change 2014 – Impacts, Adaptation and
Vulnerability: Global and Sectoral Aspects

Annual Report

Proceedings of Coast Bordeaux Symposium and of
the 17th French-Japanese Oceanography
Symposium

The Science and Impact of Climate Change

Eco-design for Buildings and Neighbourhoods

Global Science and National Sovereignty: Studies in
Historical Sociology of Science provides detailed case studies
on how sovereignty has been constructed, reaffirmed, and
transformed in the twentieth century by the construction
scientific disciplines, knowledge practices, and research
objects. Interrogating the relationship of the sovereign power
of the nation state to the scientist's expert knowledge as
legitimizing – and sometimes challenging – force in
contemporary society, this book provides a staggering range
of case studies in its exploration of how different types of

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science have transformed our understanding of national sovereignty in the last century. From biochemical sciences in Russia, to nuclear science in the US and Europe, from economics in South Asia, to climatology in South America, each chapter demonstrates the role that scientists play in the creation of nation-states and international organizations. With an array of experts and scholars, the essays in *Global Science and National Sovereignty: Studies in Historical Sociology of Science* offer a complete redefinition of the modern concept of sovereignty and an illuminating reassessment of the role of science in political life.

This collection gathers a set of seminal papers from the emerging area of ethics and climate change. Topics covered include human rights, international justice, intergenerational ethics, individual responsibility, climate economics, and the ethics of geoengineering. *Climate Ethics* is intended to serve as a source book for general reference, and for university courses that include a focus on the human dimensions of climate change. It should be of broad interest to all those concerned with global justice, environmental science and policy, and the future of humanity.

A comparison of the use of model systems and exemplary cases across fields in the natural and social sciences.

#1 Calgary Herald Bestseller An investigation of the history and demise of the most controversial North American energy infrastructure project. In 2015, President Barack Obama denied approval for TransCanada's Keystone XL pipeline, which would have carried crude oil from the Canadian oil sands to the U.S. Gulf Coast, providing great economic benefits to Canada. Over seven years of regulatory process, environmental activism, and media attention, the project has

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become infamous, a cause célèbre for North America's ENG movement and a test of Obama's bona fides in the face of global climate change risk. As one of TransCanada's senior executive group, Dennis McConaghy provides an insider's perspective of Keystone XL's history and demise. How did a routine infrastructure acquire iconic status? Why couldn't government and industry find some accommodation to salvage the project? And most importantly, what must Canada learn from Keystone XL's demise? Can the country find common ground between economic value and credible carbon policy?

Convergence of Catastrophes

Essential Readings

Evolution of Marine Coastal Ecosystems under the Pressure of Global Changes

Climate Justice

A Personal Journey through the Science

Climate Change 2014 – Impacts, Adaptation and

Vulnerability: Part A: Global and Sectoral Aspects: Volume 1

Global and Sectoral Aspects

Times of History, Times of Nature

As a consequence of recent increased awareness of the social and political dimensions of climate, many non-specialists discover a need for information about the variety of available climate models. A Climate Modelling Primer, Fourth Edition is designed to explain the basis and mechanisms of all types of current physically-based climate models. A thoroughly revised and updated edition, this book will assist the reader in understanding the complexities and applicabilities of today's wide range of climate models. Topics covered include the latest techniques for modelling the coupled biosphere-ocean-atmosphere system, information on current practical aspects of

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climate modelling and ways to evaluate and exploit the results, discussion of Earth System Models of Intermediate Complexity (EMICs), and interactive exercises based on Energy Balance Model (EBM) and the Daisyworld model. Source codes and results from a range of model types allows readers to make their own climate simulations and to view the results of the latest high resolution models. Now in full colour throughout and with the addition of cartoons to enhance student understanding the new edition of this successful textbook enables the student to tackle the difficult subject of climate modeling.

The thesis of this book is a terrifying one: our present global civilisation will collapse within twenty years, and it is too late to stop it. We shall regress to a 'New Middle Ages' akin to the fall of the Roman Empire, only much more destructive. For the first time in the whole of human history, certain 'dramatic lines', giant crises and catastrophes of immense proportions - already tangible - have emerged. They are converging and will most likely reach their zenith by 2020. Up to that time, as we have already been witnessing, their effects will continue to get worse, until a breaking point is reached. Guillaume Faye rigorously examines these escalating crises one by one: environmental damage and climate change; the breakdown of a speculative and debt-ridden globalist economy; the return of global epidemics; the depletion of fossil fuels and of agricultural and fishing resources; the rise of mass immigration, terrorism and nuclear proliferation; the worsening of the rupture between Islam and the West; and the dramatic explosion of a population of the elderly in the wealthy countries - all of it leading to an unprecedented worldwide economic recession, an increase in localised and

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possibly large-scale armed conflicts...and perhaps worse. Still, Faye reminds us, we should not give in to pessimism: what we are experiencing is not an apocalypse, but a metamorphosis of humanity. We might have reached the end of what the Hindu traditions refer to as the Kali Yuga, the 'age of iron' marked by materialism and selfishness, but those who survive the catastrophe and chaos will perhaps build a new and better humanity... With a doctorate in political science from Paris' Institute of Political Science, the essayist Guillaume Faye was one of the principal theoreticians of the French Nouvelle Droite in the 1970s and '80s prior to his growing sympathy for the identitarian movement. He has also been a journalist at Figaro-Magazine, Paris-Match, Magazine-Hebdo, Valeurs Actuelles, and a radio commentator. For several years he was the editor of J'ai tout compris (I Understood Everything), a private newsletter.

Featuring a stellar international cast list of leading and cutting-edge scholars, The Routledge Handbook of the Political Economy of the Environment presents the state of the art of the discipline that considers ecological issues and crises from a political economy perspective. This collective volume sheds new light on the effect of economic and power inequality on environmental dynamics and, conversely, on the economic and social impact of environmental dynamics. The chapters gathered in this handbook make four original contributions to the field of political economy of the environment. First, they revisit essential concepts and methods of environmental economics in the light of their political economy. Second, they introduce readers to recent theoretical and empirical advances in key issues of political economy of the environment with a special focus on the relationship between inequality and

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environmental degradation, a nexus that has dramatically come into focus with the COVID crisis. Third, the authors of this handbook open the field to its critical global and regional dimensions: global issues, such as the environmental justice movement and inequality and climate change as well as regional issues such as agriculture systems, air pollution, natural resources appropriation and urban sustainability. Fourth and finally, the work shows how novel analysis can translate into new forms of public policy that require institutional reform and new policy tools. Ecosystems preservation, international climate negotiations and climate mitigation policies all have a strong distributional dimension that chapters point to. Pressing environmental policy such as carbon pricing and low-carbon and energy transitions entail numerous social issues that also need to be accounted for with new analytical and technological tools. This handbook will be an invaluable reference, research and teaching tool for anyone interested in political economy approaches to environmental issues and ecological crises.

This publication, the fifth in the IOC Ocean Forum series, discusses the complexities of the many processes involved in climate change and the difficulties in making realistic climate predictions, using a style accessible to the non-specialist reader. The authors examine the Kyoto protocol from a number of different viewpoints, highlighting the challenges involved in the development of effective climate prediction models and policy options to address the problems caused by global warming.

National Security Implications of Climate Change for U.S. Naval Forces

Science Without Laws

Mathematicians Reflect on How to Discover, Organize, and

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Protect Our Planet

Vulnerability and Protection

Climate Changed

Climate Ethics

Climate Change

Over recent decades we have witnessed the globalization of research. However, this has yet to translate into a worldwide scientific network, across which competencies and resources can flow freely. Arab countries have strived to join this globalized world and become a 'knowledge economy,' yet little time has been invested in the region's fragmented scientific institutions; institutions that should provide opportunities for individuals to step out on the global stage. Knowledge Production in the Arab World investigates research practices in the Arab world, using multiple case studies from the region with particular focus on Lebanon and Jordan. It depicts the Janus-like face of Arab research, poised between the negative and the positive and faced with two potentially opposing strands; local relevance alongside its internationalization. The book critically assesses the role and dynamics of research and poses questions that are crucial to further our understanding of the very particular case

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of knowledge production in the Arab region. The book explores research's relevance and whom it serves, as well as the methodological flaws behind academic rankings and the meaning and application of key concepts such as knowledge society/economy. Providing a detailed and comprehensive examination of knowledge production in the Arab world, this book is of interest to students, scholars and policy makers working on the issues of research practices and status of science in contemporary developing countries.

A gripping journey through the icy regions of our changing planet From the Arctic Ocean and ice sheets of Greenland, to the glaciers of the Andes and Himalayas, to the great frozen desert of Antarctica, The White Planet takes readers on a spellbinding scientific journey through the shrinking world of ice and snow to tell the story of the expeditions and discoveries that have transformed our understanding of global climate. Written by three internationally renowned scientists at the center of many breakthroughs in ice core and climate science, this book provides an unparalleled firsthand account of how the "white planet" affects global climate—and how, in turn, global warming is changing

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the frozen world. Jean Jouzel, Claude Lorius, and Dominique Raynaud chronicle the daunting scientific, technical, and human hurdles that they and other scientists have had to overcome in order to unravel the mysteries of past and present climate change, as revealed by the cryosphere--the dynamic frozen regions of our planet. Scientifically impeccable, up-to-date, and accessible, The White Planet brings cutting-edge climate research to general readers through a vivid narrative. This is an essential book for anyone who wants to understand the inextricable link between climate and our planet's icy regions.

Our planet faces many challenges. In 2013, an international partnership of more than 140 scientific societies, research institutes, and organizations focused its attention on these challenges. This project was called Mathematics of Planet Earth and featured English- and French-language blogs, accessible to nonmathematicians, as part of its outreach activities. This book is based on more than 100 of the 270 English-language blog posts and focuses on four major themes: A Planet to Discover; A Planet Supporting Life; A Planet Organized by Humans; and A Planet at Risk. Readers will learn about

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the challenges that confront the Earth today, and how mathematics and mathematicians contribute to a better understanding of some of these challenges.

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This volume provides a holistic and concise overview of the complex science of climate change involving the interplay of multiple factors. It also acts as a primer and a one-source reference to all the aspects of climate change, allowing researchers to understand the complexity of this science and to see the larger picture, thereby aiming towards holistic solutions. Beginning in the second half of the twentieth century, the impacts of climate change have been the worst nightmare to hit humanity so fiercely, causing loss of human life and irreparable destruction to natural and man-made infrastructure in many parts of the world. The difference between climate change now and in the past is that of sudden and disproportionate disruption of the natural energy dynamics by the changing consumption patterns of billions of human beings who, in their quest for economic superiority, have polluted the terrestrial and aquatic ecosystems. The picture that emerges from the exhaustive analysis of international data drawn from the most

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reliable sources indicates that we have possibly gained access to the gateway of extinction and it is time that we take corrective steps immediately. The book's chapters not only provide an overview of climate change science but also include detailed discussion on current research. This unique analytical text is suitable for conservation environmentalists, researchers, and academicians working in the field, along with policy makers, research and training institutes, and nongovernment organizations.

Solving the Problem

Globalising the Climate

Alligators in the Arctic and How to Avoid Them

Identification and Projections

The White Planet

Dysfunction

Model Systems, Cases, Exemplary Narratives

The Routledge Handbook of the Political Economy of the Environment
Routledge

This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

A growing number of urban inhabitants are aware of pressing environmental concerns. This book aims to provide information about relevant environmental quality criteria in urban construction settings, before methods are proposed for assessing these criteria. These will be extremely helpful to eco-building designs, commencing from the very early stag

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In response to the Chief of Naval Operations (CNO), the National Research Council appointed a committee operating under the auspices of the Naval Studies Board to study the national security implications of climate change for U.S. naval forces. In conducting this study, the committee found that even the most moderate current trends in climate, if continued, will present new national security challenges for the U.S. Navy, Marine Corps, and Coast Guard. While the timing, degree, and consequences of future climate change impacts remain uncertain, many changes are already underway in regions around the world, such as in the Arctic, and call for action by U.S. naval leadership in response. The terms of reference (TOR) directed that the study be based on Intergovernmental Panel on Climate Change (IPCC) scenarios and other peer-reviewed assessment. Therefore, the committee did not address the science of climate change or challenge the scenarios on which the committee's findings and recommendations are based. National Security Implications of Climate Change for U.S. Naval Forces addresses both the near- and long-term implications for U.S. naval forces in each of the four areas of the TOR, and provides corresponding findings and recommendations. This report and its conclusions are organized around six discussion areas-all presented within the context of a changing climate.

Global Science and National Sovereignty

Routledge Handbook of the History of Sustainability

Intergovernmental Panel on Climate Change (IPCC) Third Assessment Report

The Evolution and Future of Our Frozen World

Temporalization and the Limits of Modern Knowledge

Climate Sensitivity to Radiative Perturbations

Climate Management

As climate change becomes an increasingly important part of public discourse, the relationship between time in nature and history is changing.

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Nature can no longer be considered a slow and immobile background to human history, and the future can no longer be viewed as open and detached from the past. *Times of History, Times of Nature* engages with this historical shift in temporal sensibilities through a combination of detailed case studies and synthesizing efforts. Focusing on the history of knowledge, media theory, and environmental humanities, this volume explores the rich and nuanced notions of time and temporality that have emerged in response to climate change. Integrating science, economics and policy, this book explains the urgency of sticking to a strict carbon budget.

Coastal and estuarine environments at the interface of terrestrial and marine areas are among the most productive in the world. However, since the beginning of the industrial era, these ecosystems have been subjected to strong anthropogenic pressures intensified from the second half of the 20th century, when there was a marked acceleration in the warming (climate change) of the continents, particularly at high latitudes. Coastal ecosystems are highly vulnerable to alteration of their physical, chemical and biological characteristics (marine intrusion, acidification of marine environments, changes in ecosystems, evolution and artificialization of the coastline, etc.). In contact with heavily populated areas, these environments are often the

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receptacle of a lot of chemical and biological pollution sources that significantly diminish their resilience. In this context of accelerated evolution and degradation of these areas important for food security of many populations around the world, it is necessary to better identify the factors of pressure and understand, at different scales of observation, their effects and impacts on the biodiversity and on the socio-eco-systems, in order to determine the degree of vulnerability of these coastal ecosystems and the risks they face. A transdisciplinary and integrated approach is required to prevent risks. Within this framework, operational coastal oceanography occupies an important place but also the implementation of a true socio-eco-system approach in order to set up an environmentally friendly development.

Economic Choices in a Warming World

Physical Mechanisms and Their Validation

Economics Does Not Lie

The Impossible Promise

Knowledge Production in the Arab World