

Marine Biodiversity, Climatic Variability and Global Change



Gregory Beaugrand

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Grégory Beaugrand



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Marine Policy Mark Zacharias, Jeff Ardron, 2019-06-20 This book provides readers with a foundation in policy development and analysis describing how policy including legal mechanisms are applied to the marine environment It presents a systematic treatment of all aspects of marine policy including climate change energy environmental protection fisheries mining and transportation The health of marine environments worldwide is steadily declining and these trends have been widely reported *Marine Policy* summarizes the importance of the ocean governance nexus discussing current and anticipated challenges facing marine ecosystems human activities and efforts to address these threats This new fully revised edition has been updated throughout including content to reflect the recent advances in ocean management and international law Chapters on shipping energy mining and integrated approaches to ocean management have been significantly reworked plus completely new chapters on the United Nations Convention on the Law of the Sea and the impacts of climate change have been added Pedagogical features for students are included throughout Aligned with current course offerings this book is an ideal introduction for undergraduates and graduate students taking marine affairs science and policy courses

Ocean Energy Glen Wright, Sandy Kerr, Kate Johnson, 2017-12-14 Energy from wave and tidal power is a key component of current policies for renewable sources of energy This book provides the first comprehensive exploration of legal economic and social issues related to the emerging ocean energy industry in particular wave and tidal energy technologies This industry is rapidly developing and considerable technical literature has developed around the technology However it is shown that challenges relating to regulation and policy are major impediments to industry development and these aspects have not previously been sufficiently highlighted and studied The book informs policymakers industry participants and researchers of the key issues in this developing field Ocean energy is considered in the context of the blue economy and an industrialising ocean and the topics covered include development of policy policy instruments risk and delay in technology development legal aspects consenting processes resource management impact assessment human interactions conflicts consultation community benefits and spatial planning of the marine environment While offshore wind energy sited in the oceans but not strictly derived from the ocean is not the primary focus of the book there is also discussion of the similarities and differences between offshore wind and wave and tidal power policy dimensions

Maritime Clusters and the Ocean Economy Peter B. Myles, 2017-09-07 Over the last decade the concept of clustering has become a central idea for analyzing the competitiveness of nations industries and firms This book shows how the cluster concept can be usefully applied to the study of maritime activities Such activities including shipping shipbuilding and port and maritime services are clearly geographically concentrated in a number of maritime clusters However as the author shows these are having to compete with other uses of the coasts and oceans including capture fisheries marine aquaculture offshore energy and tourism Sound governance and planning is therefore required to manage the competing claims for ocean space The book shows how competing industries and other stakeholders can cooperate and benefit from an integrated approach to the

development of maritime clusters The contribution of approaches such as integrated coastal zone management and innovations such as ocean business councils as well as coordinated networks of maritime clusters are reviewed Case studies are included from around the world including detailed examples of the development of the Nelson Mandela Bay Maritime Cluster in South Africa and from Poland in the Baltic Sea Transboundary Marine Spatial Planning and International Law Daud Hassan,Tuomas Kuokkanen,Niko Soininen,2015-07-16 Marine Spatial Planning MSP is an integrated and comprehensive approach to ocean governance and is used to establish a rational use of marine space and reconcile conflicting interests of its users MSP allows both a high level of environmental protection and a wide range of human activities and emphasizes coordinated networks of national regional and global institutions This book focuses on the framework of international law behind MSP and especially on the transboundary aspects of MSP It first sets out a general framework for transboundary MSP and then moves on to compare and assess differences and similarities between different regions Specific detailed case studies include the EU with the focus on the Baltic Sea and North Sea the Bay of Bengal and Great Barrier Reef in Australia The authors examine the national and regional significance of MSP from an integrated and sustainable ocean governance point of view They also show how transboundary MSP can create opportunities and positive initiatives for cross border cooperation and contribute to the effective protection of the regional marine environment

Marine Transboundary Conservation and Protected Areas Peter Mackelworth,2016-04-28 The marine environment does not naturally respect arbitrary international boundaries The establishment and management of transboundary marine protected areas therefore presents major governance challenges This book analyses a series of marine transboundary conservation initiatives embedded in varying contextual situations to examine the underlying reasons for their success or failure Utilising an adapted pathways of influence framework it provides insights into the development of marine transboundary conservation initiatives looking at the effectiveness of international rules international norms and discourse market forces and direct access to policy making Examples come from a wide range of jurisdictions including territorial seas continental shelves exclusive economic zones and areas beyond national jurisdiction Case studies include initiatives in the Coral Triangle West Africa Central America the Wadden Sea the Red Sea and the Mediterranean Sea In addition the authors assess the potential for developing wider international cooperation as a result of relationships forged through involvement within these marine transboundary conservation initiatives **Marine Extremes** Erika Techera,Gundula Winter,2019-01-14 Marine extremes as they are conceived of in this volume encompass environments activities events and impacts Extreme environments found in and around our oceans including the deep sea and seabed as well as the frozen polar regions are being seriously affected by both extreme behaviours dumping and discharge of waste illegal fishing and piracy and extreme events storms tsunamis extreme waves and marine heatwaves The aim of this book is to highlight the multi disciplinary knowledge and inputs needed to address marine extremes and thereafter to explore opportunities and current challenges

Safe and healthy oceans are important for economic recreational and cultural activities in addition to the maintenance of ecosystem services upon which we rely This volume gathers a unique mix of researchers working on scientific aspects of biological ecosystems and physical processes together with social scientists exploring law and governance options community preferences cultural values economic aspects and criminological drivers and approaches The multi disciplinary feature of this book breaks down barriers that arise between disparate fields of research so that integrated solutions to ocean challenges can be found Overall this book argues that if we are to achieve sustainable utilisation of our oceans and blue economy goals we must better understand and respond to the extreme environments activities events and impacts The book is a valuable addition to the literature and will be of interest to researchers in marine science ocean governance and natural resource economics as well as to professionals and government officials concerned with marine policy and planning

Marine and Coastal Resource Management David R. Green,Jeffrey L. Payne,2017-09-27 In this new and highly original textbook for a range of interdisciplinary courses and degree programmes focusing on marine and coastal resource management readers are offered an introduction to the subject matter a broad perspective and understanding case study applications and a reference source Each chapter is written by an international authority and expert in the respective field providing perspectives from physical and human geography marine biology and fisheries planning and surveying law technology environmental change engineering and tourism In addition to an overview of the theory and practice of its subject area many chapters include detailed case studies to illustrate the applications including relationships to decision making requirements at local regional and national levels Each chapter also includes a list of references for further reading with a selection of key journal papers and URLs Overall this volume provides a key textbook for undergraduate and postgraduate courses and for the coastal or marine practitioner as well as a long term reference for students

Citizen Science for Coastal and Marine Conservation John A. Cigliano,Heidi L. Ballard,2017-10-31 In recent years citizen science has emerged as a powerful new concept to enable the general public students and volunteers to become involved in scientific research A prime example is in biodiversity conservation where data collection and monitoring can be greatly enhanced through citizen participation This is the first book to provide much needed guidance and case studies from marine and coastal conservation The novelty and rapid expansion of the field has created a demand for the discussion of key issues and the development of best practices The book demonstrates the utility and feasibility as well as limitations of using marine and coastal citizen science for conservation and by providing critical considerations i e which questions and systems are best suited for citizen science presents recommendations for best practices for successful marine and coastal citizen science projects A range of case studies for example on monitoring of seabird populations invasive species plastics pollution and the impacts of climate change from different parts of the world is included Also included are discussions on engaging youth indigenous communities and divers and snorkelers as citizen scientists as well as best practices on communication within citizen science building

trust with stakeholders and informing marine policy as part of this exciting and empowering way of improving marine and coastal conservation

Encyclopedia of Environmental Change John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

Oceanobs'19: An Ocean of Opportunity. Volume I

Tong Lee, Sabrina Speich, Laura Lorenzoni, Sanae Chiba, Frank E. Muller-Karger, Minhan Dai, Amos T. Kabo-Bah, John Siddorn, Justin Manley, Maria Snoussi, Fei Chai, 2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

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

Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the 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

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part A: Global and Sectoral Aspects: Volume 1, Global and Sectoral Aspects Intergovernmental Panel on Climate Change (IPCC), 2014-12-29 This latest Fifth Assessment Report of the

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 *Oceanography and Marine Biology* R. N. Hughes, D. J. Hughes, I. P. Smith, 2013-08-28 Increasing interest in oceanography and marine biology and its relevance to global environmental issues continues to create a demand for authoritative reviews summarizing recent research Now in its 51st volume *Oceanography and Marine Biology* has addressed this demand for more than 50 years This annual review considers the basics of marine research special topics and emerging new areas Regarding the marine sciences as a unified field the text features contributors who are actively engaged in biological chemical geological and physical aspects of marine science Including color inserts and extensive reference lists this series is essential for researchers and students in all fields of marine science *The Oxford Handbook of Historical Ecology and Applied Archaeology* Christian Isendahl, Daryl Stump, 2019-01-10 The Oxford Handbook of Historical Ecology and Applied Archaeology presents theoretical discussions methodological outlines and case studies describing the field of overlap between historical ecology and the emerging sub discipline of applied archaeology to highlight how modern environments and landscapes have been shaped by humans Historical ecology is based on the recognition that humans are not only capable of modifying their environments but that all environments on earth have already been directly or indirectly modified This includes anthropogenic climate change widespread deforestations and species extinctions but also very local alterations the effects of which may last a few years or may have legacies lasting centuries or more With contributions from anthropologists archaeologists human geographers and historians this volume focuses not just on defining human impacts in the past but on the ways that understanding these changes can help inform contemporary practices and development policies Some chapters present examples of how ancient or current societies have modified their environments in sustainable ways while others highlight practices that had unintended long term consequences The possibilities of learning from these practices are discussed as is the potential of using the long history of human resource exploitation as a method for building or testing models of future change The volume offers overviews for students researchers and professionals with an interest in conservation or development projects who want to understand what practical insights can be drawn from history and who seek to apply their work to contemporary issues *Avoiding Dangerous Climate Change* Wolfgang P. Cramer, 2006-02-02 This volume first published in 2006 presents findings on climate change from leading international scientists for researchers policy makers and engineers **Australian Climate Law in Global Context** Alexander Zahar, Jacqueline Peel, Lee Godden, 2012-11-14 Provides a comprehensive guide to climate change law in Australia and internationally focusing on Australia s implementation of climate related treaties *Climate Change 2001: Impacts, Adaptation, and Vulnerability* Intergovernmental Panel on Climate Change. Working Group II., 2001-07-02 Some issues addressed in this Working Group III volume are mitigation of greenhouse gas emissions

managing biological carbon reservoirs geo engineering costing methods and decision making frameworks **Megacities and the Coast** Mark Pelling, Sophie Blackburn, 2014-01-03 Based on a major international study this volume provides a synthesis of scientific knowledge on megacity urbanization on the coast environmental impacts risks and management choices including a focus on adaptation mitigation and disaster risk management It is the primary output of a major international scientific project sponsored by the International Geosphere Biosphere Programme the Land Ocean Interactions at the Coastal Zone programme of IHDP IGBP and others It brings together the work of over 60 contributing authors and an international review board It presents the international policy and academic community with an unbiased and high quality assessment of the state of the art in areas of social ecological systems interaction One of its main messages is that while we know a great deal about megacities of more than ten million people and about urban processes and about coasts and their physical and ecological processes aquatic physical and atmospheric there is relatively little work that focusses primarily at points of intersection between large scale urbanization and the coast The book responds to this gap by providing the first global synthesis of megacity and large urban region urbanization on the coast Its focus is on environmental and development challenges climate change and disaster It is interdisciplinary and brings together world recognised scientists including many IPCC lead authors on urban climate and atmosphere disaster risk management demography and coastal environments

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