



TERRESTRIAL GLOBAL PRODUCTIVITY

— EDITED BY —

*Bernard Saugier
Jacques Roy
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Terrestrial Global Productivity

Brian D. Fath



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Terrestrial Global Productivity Jacques Roy, Bernard Saugier, Harold A. Mooney, 2001 Trophic levels

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

Molecular To Global Photosynthesis Mary D Archer, James Barber, 2004-05-10 Green plants and photosynthetic organisms are the Earth's natural photoconverters of solar energy In future biomass and bioenergy will become increasingly significant energy sources making a contribution both to carbon dioxide abatement and to the security diversity and sustainability of global energy supplies In this book experts provide a series of authoritative chapters on the intricate mechanisms of photosynthesis and the potential for using and improving photosynthetic organisms plants and trees to sequester carbon dioxide and to provide fuel and useful chemicals for the benefit of man a

Ecosystem Function in Savannas Michael J. Hill, Niall P Hanan, 2010-11-17 Fascinating and diverse savanna ecosystems support a combination of pastoral and agropastoral communities alongside wild and domestic herbivores that can be found nowhere else This diversity has made the study of these areas problematic Ecosystem Function in Savannas Measurement and Modeling at Landscape to Global Scales addresses some of the d

The Global Carbon Cycle Christopher B. Field, Michael R. Raupach, 2012-09-26 While a number of gases are implicated in global warming carbon dioxide is the most important contributor and in one sense the entire phenomena can be seen as a human induced perturbation of the carbon cycle The Global Carbon Cycle offers a scientific assessment of the state of current knowledge of the carbon cycle by the world's leading scientists sponsored by SCOPE and the Global Carbon Project and other international partners It gives an introductory over view of the carbon cycle with multidisciplinary contributions covering biological physical and social science aspects Included are 29 chapters covering topics including an assessment of carbon climate human interactions a portfolio of carbon management options spatial and temporal distribution of sources and sinks of

carbon dioxide socio economic driving forces of emissions scenarios Throughout contributors emphasize that all parts of the carbon cycle are interrelated and only by developing a framework that considers the full set of feedbacks will we be able to achieve a thorough understanding and develop effective management strategies The Global Carbon Cycle edited by Christopher B Field and Michael R Raupach is part of the Rapid Assessment Publication series produced by the Scientific Committee on Problems of the Environment SCOPE in an effort to quickly disseminate the collective knowledge of the world's leading experts on topics of pressing environmental concern

The Ecological World View Charles Krebs, 2008-01-09 This new textbook fills an important niche by offering a lively overview of the principles of ecology for a broad range of university level science and biology courses Written for those who need to understand key ecological concepts but may specialise in other fields it is filled with many vivid examples of topical issues and current events The Ecological World View briefly covers the history of ecology and describes the general approach of the scientific method then takes a wide ranging look at basic principles of population dynamics and applies them to everyday practical problems Each chapter clearly presents key concepts and learning objectives combined with thought provoking open ended questions to facilitate discussion Stimulating appealing and written in non technical language this is an essential resource for understanding how the ecological world works

Global Change Processes and Impacts in Africa Luanne Otter, Daniel O. Olago, Isabelle Niang, 2007

The Paradigm of Forests and the Survival of the Fittest Sergio A. Molina-Murillo, Carlos Rojas Alvarado, 2018-12-20 This book demonstrates the social historical and environmental framework within which humans have developed a relationship with the forest and its resources Starting from the biological basis that permits the existence of forests to the use of forest resources in a modern human context this book summarizes the interaction between humans and forest ecosystems Designed for readers from a broad range of disciplines and interests including those from environmental sciences environmental economics sociology anthropology biology forestry and human ecology and other related disciplines the book evokes interest in the development of an integrated approach towards forest ecosystems and natural resources in the context of sustainability

Handbook of Water Harvesting and Conservation Saeid Eslamian, Faezeh Eslamian, 2021-04-09 Water harvesting is gaining more and more recognition as the sustainable and resilient alternative to other water supply options It is economically viable socially compatible and environmentally friendly Water harvesting has proven to be a robust solution to overcome or reduce water shortages all over the world To apply this in a sustainable and effective way it is important to understand exactly where it can be applied to make full use of its potential The Handbook of Water Harvesting and Conservation Case Studies and Application Examples is the most comprehensive up to date and applied casebook on water harvesting and conservation yet published The editors bring together the many perspectives into a synthesis that is both academically based and practical in its potential applications The Handbook of Water Harvesting and Conservation Case Studies and Application Examples will be an important tool for education research and technical works in the soil water and

watershed management area and will be highly useful for drought strategy planning flood management and adaptation to climate change in all urban agricultural forest rangeland areas

Arctic Ecology David N. Thomas, 2021-01-26 The Arctic is often portrayed as being isolated but the reality is that the connectivity with the rest of the planet is huge be it through weather patterns global ocean circulation and large scale migration patterns to name but a few There is a huge amount of public interest in the changing Arctic especially in terms of the rapid changes taking place in ecosystems and exploitation of resources There can be no doubt that the Arctic is at the forefront of the international environmental science agenda both from a scientific aspect and also from a policy environmental management perspective This book aims to stimulate a wide audience to think about the Arctic by highlighting the remarkable breadth of what it means to study its ecology Arctic Ecology seeks to systematically introduce the diverse array of ecologies within the Arctic region As the Arctic rapidly changes understanding the fundamental ecology underpinning the Arctic is paramount to understanding the consequences of what such change will inevitably bring about Arctic Ecology is designed to provide graduate students of environmental science ecology and climate change with a source where Arctic ecology is addressed specifically with issues due to climate change clearly discussed It will also be of use to policy makers researchers and international agencies who are focusing on ecological issues and effects of global climate change in the Arctic About the Editor David N Thomas is Professor of Arctic Ecosystem Research in the Faculty of Biological and Environmental Sciences University of Helsinki Previously he spent 24 years in the School of Ocean Sciences Bangor University Wales He studies marine systems with a particular emphasis on sea ice and land coast interactions in the Arctic and Southern Oceans as well as the Baltic Sea He also edited a related book Sea Ice 3rd Edition 2017 which is also published by Wiley Blackwell

Food, Feed, Fuel, Timber or Carbon Sink? Towards Sustainable Land Use Miguel Brandão, Llorenç Milà i Canals, Roland Clift, 2021-04-15 This book provides a holistic framework for assessing the environmental and economic impacts of land use strategies for a range of purposes such as food animal feed biomass and biofuels and timber Using land for one purpose negates its use for any other competing purpose Given that it is in limited supply land needs to be optimised so that it can meet the increasing demand for crops of a growing and wealthier human population while providing ecosystem services such as carbon storage i e climate change mitigation The framework is quantitative and includes various indirect effects like indirect land use change and is a robust basis with which to assess global impacts from land use decisions on climate change ecosystem services and biodiversity

The Carbon Balance of Forest Biomes Howard Griffith, Paul Jarvis, 2004-08-15 The Carbon Balance of Forest Biomes provides an informed synthesis on the current status of forests and their future potential for carbon sequestration This volume is timely since convincing models which scale from local to regional carbon fluxes are needed to support these international agreements whilst criticisms have been levelled at existing empirical approaches One key question is to determine how well eddy flux measurements at the stand level represent regional scale processes This may be related to specific management

practices age plantation fertilisation or simple bias in choosing representative sites ease of access roughness proximity to physical barriers The ecology and regeneration state of temperate tropical and boreal forests under current climatic conditions are discussed together with partitioning of photosynthetic and respiratory fluxes from soils and vegetation The volume considers how to integrate contrasting methodologies and the latest approaches for scaling from stand to the planetary boundary layer A History of Atmospheric CO₂ and Its Effects on Plants, Animals, and Ecosystems James R. Ehleringer, Thure Cerling, M. Denise Dearing, 2005-07-28 Extensive research in geology atmospheric science and paleontology provides a detailed history of CO₂ in the atmosphere and an understanding of factors that have influenced changes in the past This knowledge is used to illuminate the role of atmospheric CO₂ in the modern carbon cycle and in the evolution of plants and animals With an understanding of the history and dynamics of the biosphere the authors address the future role of atmospheric CO₂ and its likely effects on ecosystems This book incorporates the advances of various earth science environmental and ecological fields into an overall account of global change and the changing dynamics of life on Earth

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume Earth Observations from Space National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Scientific Accomplishments of Earth Observations from Space, 2008-01-17 Over the past 50 years thousands of satellites have been sent into space on missions to collect data about the Earth Today the ability to forecast weather climate and natural hazards depends critically on these satellite based observations At the request of the National Aeronautics and Space Administration

the National Research Council convened a committee to examine the scientific accomplishments that have resulted from space based observations This book describes how the ability to view the entire globe at once uniquely available from satellite observations has revolutionized Earth studies and ushered in a new era of multidisciplinary Earth sciences In particular the ability to gather satellite images frequently enough to create movies of the changing planet is improving the understanding of Earth s dynamic processes and helping society to manage limited resources and environmental challenges The book concludes that continued Earth observations from space will be required to address scientific and societal challenges of the future

Forests, Carbon Cycle and Climate Change Denis Loustau,2010-03-04 The results presented in this book summarize the main findings of the CARBOFOR project which brought together 52 scientists from 14 research units to investigate the effects of future climate on the carbon cycle the productivity and vulnerability of French forests This book explains the current forest carbon cycle in temperate and Mediterranean climates including the dynamics of soil carbon and the total carbon stock of French forests based on forest inventories It reviews and illustrates the main ground based methods for estimating carbon stocks in tree biomass Spatial variations in projected climate change over metropolitan France throughout the 21st century are described The book then goes on to consider the impacts of climate change on tree phenology and forest carbon balance evapotranspiration and production as well as their first order interaction with forest management alternatives The impact of climate change on forest vulnerability is analysed A similar simulation study was carried out for a range of pathogenic fungi emphasizing the importance of both warming and precipitation changes The consequences of climate change on the occurrence of forest fires and the forest carbon cycle in the Mediterranean zone are also considered A valuable reference for researchers and academics forest engineers and managers and graduate level students in forest ecology ecological modelling and forestry

Encyclopedia of Ecology Brian D. Fath,2018-08-23
Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

How to Feed the World Vaclav Smil,2025-03-04 Vaclav Smil is my favorite author

Bill Gates An indispensable analysis of how the world really produces and consumes its food and a scientist's exploration of how we can successfully feed a growing population without killing the planet We have never had to feed as many people as we do today And yet we misunderstand the essentials of where our food really comes from how our dietary requirements shape us and why this impacts our planet in drastic ways As a result in our economic political and everyday choices we take for granted and fail to prioritize the thing that makes all our lives possible food In this ambitious myth busting book Smil investigates many of the burning questions facing the world today why are some of the world's biggest food producers also the countries with the most undernourished populations Why do we waste so much food and how can we solve that Could the whole planet go vegan and be healthy Should it He explores the global history of food production to understand why we farm some animals and not others why most of the world's calories come from just a few foodstuffs and how this might change in the future How to Feed the World is the data based rigorously researched guide that offers solutions to our broken global food system

Ecophysiology of Tropical Plants Sachchidanand Tripathi, Rahul Bhadouria, Pratap Srivastava, Rishikesh Singh, Rajkumari Sanayaima Devi, 2023-10-03 Plants in tropical regions are coping with enormous challenges of physiological stresses owing to changing environmental and climatic conditions Rapid growth of human population and rampant exploitation of fossil fuels and other developmental activities are actively contributing to such perturbations The Intergovernmental Panel on Climate Change has projected a sustained increase in carbon dioxide CO₂ emissions and thereby a rise in global temperature in the coming decades The resultant changes in precipitation patterns are now evident across the globe due to intensification of hydrological cycle Moreover gaseous and particulate pollutants are also an immense challenge for tropical plants Such vagaries in environmental conditions have significant impacts on the ecophysiological traits of plants resulting from altered interactions of tropical plants with each other as well as other biotic and abiotic components within the ecosystem Books available in the market that particularly focus on ecophysiological responses of tropical plants to abiotic and biotic environmental factors under climate change are limited This book intends to fill this knowledge gap and provides a detailed analysis on ecophysiological responses of tropical plants to these environmental challenges as well as suggesting some approachable measures for plant adaptations to these challenges The book is equally applicable to undergraduate and postgraduate students researchers teachers and forest managers and policy makers Salient features of the book are A comprehensive discussion on adaptive mechanisms of plants through their ecophysiological responses to various biotic and abiotic stresses Elaboration on the recent techniques involved in ecophysiological research A detailed account of evolutionary responses of plants to changing climate Discussion of recent research results and some pointers to future advancements in ecophysiological research Presentation of information in a way that is accessible for students researchers and teachers practicing in plant physiology and ecology

Biophysical Applications of Satellite Remote Sensing Jonathan Hanes, 2013-12-26 A variety of biophysical applications e.g. leaf area index and gross primary productivity

have been derived from measurements of the Earth system obtained remotely by NASA's MODIS sensors and other satellite platforms. In *Biophysical Applications of Satellite Remote Sensing*, the authors describe major applications of satellite remote sensing for studying Earth's biophysical phenomena. The focus of the book lies on the broad palette of specific applications metrics of biophysical activity derived using satellite remote sensing. With in-depth discussions of satellite-derived biophysical metrics that focus specifically on theory, methodology, validation, major findings, and directions of future research, this book provides an excellent resource for remote sensing specialists, ecologists, geographers, biologists, climatologists, and environmental scientists.

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Terrestrial Global Productivity Introduction

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