



Irene L. Hudson
Marie R. Keatley
Editors

Phenological Research

*Methods for Environmental
and Climate Change Analysis*



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Phenological Research Methods For Environmental And Climate Change Analysis

Yan Bai



Phenological Research Methods For Environmental And Climate Change Analysis:

Phenological Research Irene L. Hudson, Marie R. Keatley, 2009-11-24 As climate change continues to dominate the international environmental agenda phenology the study of the timing of recurring biological events has received increasing research attention leading to an emerging consensus that phenology can be viewed as an early warning system for climate change impact A multidisciplinary science involving many branches of ecology geography and remote sensing phenology to date has lacked a coherent methodological text This new synthesis including contributions from many of the world s leading phenologists therefore fills a critical gap in the current biological literature Providing critiques of current methods as well as detailing novel and emerging methodologies the book with its extensive suite of references provides readers with an understanding of both the theoretical basis and the potential applications required to adopt and adapt new analytical and design methods An invaluable source book for researchers and students in ecology and climate change science the book also provides a useful reference for practitioners in a range of sectors including human health fisheries forestry agriculture and natural resource management

Phenological Research Irene L. Hudson, Marie R. Keatley, 2010 As climate change continues to dominate the international environmental agenda phenology the study of the timing of recurring biological events has received increasing research attention leading to an emerging consensus that phenology can be viewed as an early warning system for climate change impact A multidisciplinary science involving many branches of ecology geography and remote sensing phenology to date has lacked a coherent methodological text This new synthesis including contributions from many of the world s leading phenologists therefore fills a critical gap in the current biological literature Providing critiques of current methods as well as detailing novel and emerging methodologies the book with its extensive suite of references provides readers with an understanding of both the theoretical basis and the potential applications required to adopt and adapt new analytical and design methods An invaluable source book for researchers and students in ecology and climate change science the book also provides a useful reference for practitioners in a range of sectors including human health fisheries forestry agriculture and natural resource management

Phenology: An Integrative Environmental Science Mark D. Schwartz, 2013-07-30 Phenology refers to recurring plant and animal life cycle stages such as leafing and flowering maturation of agricultural plants emergence of insects and migration of birds It is also the study of these recurring events especially their timing and relationships with weather and climate Phenological phenomena all give a ready measure of the environment as viewed by the associated organism and are thus ideal indicators of the impact of local and global changes in weather and climate on the earth s biosphere Assessing our changing world is a complex task that requires close cooperation from experts in biology climatology ecology geography oceanography remote sensing and other areas Like its predecessor this second edition of Phenology is a synthesis of current phenological knowledge designed as a primer on the field for global change and general scientists students and interested members of the public With updated and new contributions from over

fifty phenological experts covering data collection current research methods and applications it demonstrates the accomplishments progress over the last decade and future potential of phenology as an integrative environmental science

Plant Phenology as a Biomonitor for Climate Change in Germany Gunther Schmidt, Simon Schönrock, Winfried Schröder, 2014-08-14 The investigations refer to the development of plant phenology since the 1960s in Germany Spatiotemporal trends were assessed by means of regression kriging It could be shown that there already is a distinct shift of phenological onset towards the beginning of the year of up to two weeks In future a shift of up to one month was calculated till 2080 Moreover a prolongation of the vegetation period of up to three weeks was found The findings are relevant for the development of mitigation measures to prevent from environmental agricultural and economic issues due to climate change

Encyclopedia of Climate and Weather Dr. Stephen H. Schneider, 2011-06-09 This three volume A to Z compendium consists of over 300 entries written by a team of leading international scholars and researchers working in the field Authoritative and up to date the encyclopedia covers the processes that produce our weather important scientific concepts the history of ideas underlying the atmospheric sciences biographical accounts of those who have made significant contributions to climatology and meteorology and particular weather events from extreme tropical cyclones and tornadoes to local winds *Phenology and Climate Change* Xiaoyang Zhang, 2012-03-21 Phenology a study of animal and plant life cycle is one of the most obvious and direct phenomena on our planet The timing of phenological events provides vital information for climate change investigation natural resource management carbon sequence analysis and crop and forest growth monitoring This book summarizes recent progresses in the understanding of seasonal variation in animals and plants and its correlations to climate variables With the contributions of phenological scientists worldwide this book is subdivided into sixteen chapters and sorted in four parts animal life cycle plant seasonality phenology in fruit plants and remote sensing phenology The chapters of this book offer a broad overview of phenology observations and climate impacts Hopefully this book will stimulate further developments in relation to phenology monitoring modeling and predicting

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

Discrete Wavelet Transforms Hannu Olkkonen, 2011-09-12 The discrete wavelet transform DWT algorithms have a firm position in processing of signals in several areas of research and industry As DWT provides both octave scale frequency and spatial timing of the analyzed signal it is constantly used to solve and treat more and more advanced problems The present book *Discrete Wavelet Transforms Biomedical Applications* reviews the recent progress in discrete wavelet transform algorithms and applications The book reviews the recent progress in DWT algorithms for biomedical applications The book covers a wide range of architectures e g lifting shift invariance multi scale analysis for constructing DWTs The book chapters are organized into four major parts Part I describes the progress in implementations of the DWT algorithms in biomedical signal analysis Applications include compression and filtering of biomedical signals DWT based selection of salient EEG frequency band shift invariant DWTs for multiscale analysis and DWT assisted heart sound analysis Part II addresses speech analysis modeling and understanding of speech and speaker recognition Part III focuses biosensor applications such as calibration of enzymatic sensors multiscale analysis of wireless capsule endoscopy recordings DWT assisted electronic nose analysis and optical fibre sensor analyses Finally Part IV describes DWT algorithms for tools in identification and diagnostics identification based on hand geometry identification of species groupings object detection and tracking DWT signatures and diagnostics for assessment of ICU agitation sedation controllers and DWT based diagnostics of power transformers The chapters of the present book consist of both tutorial and highly advanced material Therefore the book is intended to be a reference text for graduate students and researchers to obtain state of the art knowledge on specific applications

Probability, Combinatorics and Control Andrey Kostogryzov, Victor Korolev, 2020-04-15 Probabilistic and combinatorial techniques are often used for solving advanced problems This book describes different probabilistic modeling methods and their applications in various areas such as artificial intelligence offshore platforms social networks and others It aims to educate how modern probabilistic and combinatorial models may be created to formalize uncertainties to train how new probabilistic models can be generated for the systems of complex structures to describe the correct use of the presented models for rational control in systems creation and operation and to demonstrate analytical possibilities and practical effects for solving different system problems on each life cycle stage

Remote Sensing Handbook - Three Volume Set Prasad Thenkabail, 2018-10-03 A volume in the three volume Remote Sensing Handbook series Remote Sensing of Water Resources Disasters and Urban Studies documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Remotely Sensed Data Characterization Classification and Accuracies and Land Reso

Handbook of Agricultural Economics, 2021-12-08 Handbook of Agricultural Economics Volume Five highlights new advances in the field with this new release exploring comprehensive chapters written by an international board of

authors who discuss topics such as The Economics of Agricultural Innovation Climate food and agriculture Agricultural Labor Markets Immigration Policy Minimum Wages Etc Risk Management in Agricultural Production Animal Health and Livestock Disease Behavioral and Experimental Economics to Inform Agri Environmental Programs and Policies Big Data Machine Learning Methods for Agricultural and Applied Economists Agricultural data collection to minimize measurement error and maximize coverage Gender agriculture and nutrition Social Networks Analysis In Agricultural Economics and more Presents the latest release in the Handbook of Agricultural Economics Written and contributed by leaders in the field Covers topics such as The Economics of Agricultural Innovation Climate Food and Agriculture Agricultural Labor Markets and more

Discrete Wavelet Transforms Dr. Awad Al-Asmari,2013-02-06 Discrete Wavelet Transform is a wavelet DWT transform that is widely used in numerical and functional analysis Its key advantage over more traditional transforms such as the Fourier transform lies in its ability to offer temporal resolution i e it captures both frequency and location or time information This book presents a succinct compendium of some of the more recent variants of DWTs and their use to come up with solutions to an array of problems transcending the traditional application areas of image video processing and security to the relatively newer areas of medicine artificial intelligence power systems and telecommunications The first of the two sections of this book contains three chapters devoted to traditional applications of DWTs in digital image compression copyright protection and video resolution enhancement The second section comprising of five chapters is devoted to variants of the DWT and their applications in humanoid robot vision systems modeling and simulation recognition of physiological and behavioral traits through human gait and facial images assessment of agitation and sedation in intensive care patients maximization of power control systems and finally in demodulation of FM data in free space optical control systems The Palgrave Handbook of Climate History Sam White,Christian Pfister,Franz Mauelshagen,2018-08-10 This handbook offers the first comprehensive state of the field guide to past weather and climate and their role in human societies Bringing together dozens of international specialists from the sciences and humanities this volume describes the methods sources and major findings of historical climate reconstruction and impact research Its chapters take the reader through each key source of past climate and weather information and each technique of analysis through each historical period and region of the world through the major topics of climate and history and core case studies and finally through the history of climate ideas and science Using clear non technical language The Palgrave Handbook of Climate History serves as a textbook for students a reference guide for specialists and an introduction to climate history for scholars and interested readers Reproductive Ecology of Flowering Plants: Patterns and Processes Rajesh Tandon,K. R. Shivanna,Monika Koul,2020-08-07 Sexual reproduction is the predominant mode of perpetuation for flowering plant species Investigating the reproductive strategies of plants has grown to become a vast area of research and in crop plants covers events from flowering to fruit and seed development in wild species it extends up to seed dispersal and seedling recruitment Thus reproduction determines the

extent of yield in crop plants and in wild plants also determines the efficacy of recruiting new adults to the population making this field important both from fundamental and applied plant biology perspectives Moreover in light of the growing concerns regarding food and nutritional security for the growing population and preserving biological diversity reproductive biology of flowering plants has acquired special significance Extensive studies on various facets of reproduction are being carried out around the world However these studies are scattered across research journals and reviews from diverse areas of biology The present volume covers the whole spectrum of reproductive ecology from phenology and floral biology to sexuality and pollination biology ecology including floral rewards breeding systems apomixis and seed dispersal In turn transgene flow its biosafety and mitigation approaches and the global pollinator crisis which has become a major international concern in light of the urgent need to sustain crop yield and biodiversity are discussed in detail Given its scope the book offers a valuable resource for students teachers and researchers of botany zoology ecology agriculture and forestry as well as conservation biologists

Current Advances in Fern Research Helena Fernández, 2018-03-24 Ferns collectively represent an ancient species of vascular plant which has a direct connection to the beginning of life on Earth Today they are valued for their ornamental appeal environmental benefit or as sources of health benefiting metabolites Current pteridology the study of fern encompasses a wide range of research activities including but not limited to plant physiology stress tolerance genetics and genomics The goal of this book is to compile the most relevant research done with ferns during the last decade It is organized into four parts I Biology and Biotechnology II Evolution and Conservation III Metabolism and Genetic Resources and IV Environment Each section reveals the utilization of ferns as a tool to explore challenges unique to plant development and adaptation This project represents our collective effort to raise the awareness of ferns as a model system to study higher plant functions Among the distinctive features of our proposed book are i a wide range of topics with contributing researchers from all around the world and ii recent advances of theoretic and applied knowledge with implications to crop species of economic value

Land Resources Monitoring, Modeling, and Mapping with Remote Sensing Ph.D., Prasad S. Thenkabail, 2015-10-02 A volume in the three volume Remote Sensing Handbook series Land Resources Monitoring Modeling and Mapping with Remote Sensing documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Remotely Sensed Data Characterization Classification and Accuracies and Remote Sensing of Water Resources Disasters and Urban Studies In true handbook style the chapters in the volume have been carefully selected organized and designed to be self contained so that you can focus on a chapter and read it through without having to be overly dependent on other chapters This volume provides comprehensive theoretical and practical coverage of remote sensing of land resources that include vegetation and biomass agricultural croplands rangelands phenology and food security forests biodiversity ecology land use land cover carbon and soils Highlights include Global terrestrial carbon and carbon budgets Precision farming Agricultural systems studies and soil studies Global croplands

agricultural croplands and rangelands Food security analysis Biodiversity Land use and land cover mapping Measuring photosynthesis from space Vegetation characterization and above ground biomass measurements and modeling Hyperspectral remote sensing Ecological studies Tropical forest characterization Habitat mapping and monitoring In a very practical way the book demonstrates the experience utility methods and models used in studying a wide array of land applications With more than 100 leading global contributors this book is the most comprehensive documentation of the scientific and methodological advances that have taken place in understanding remote sensing data methods and applications over last 50 years In a very practical way the book demonstrates the experience utility methods and models used in studying a wide array of Land applications

African Handbook of Climate Change Adaptation Nicholas Oguge, Desalegn Ayale, Lydia Adeleke, Izael da Silva, 2021-05-20 This open access book discusses current thinking and presents the main issues and challenges associated with climate change in Africa It introduces evidences from studies and projects which show how climate change adaptation is being and may continue to be successfully implemented in African countries Thanks to its scope and wide range of themes surrounding climate change the ambition is that this book will be a lead publication on the topic which may be regularly updated and hence capture further works Climate change is a major global challenge However some geographical regions are more severely affected than others One of these regions is the African continent Due to a combination of unfavourable socio economic and meteorological conditions African countries are particularly vulnerable to climate change and its impacts The recently released IPCC special report Global Warming of 1.5°C outlines the fact that keeping global warming by the level of 1.5°C is possible but also suggested that an increase by 2.0°C could lead to crises with crops agriculture fed by rain could drop by 50% in some African countries by 2020 and livestock production could damage water supplies and pose an additional threat to coastal areas The 5th Assessment Report produced by IPCC predicts that wheat may disappear from Africa by 2080 and that maize a staple will fall significantly in southern Africa Also arid and semi arid lands are likely to increase by up to 8% with severe ramifications for livelihoods poverty eradication and meeting the SDGs Pursuing appropriate adaptation strategies is thus vital in order to address the current and future challenges posed by a changing climate It is against this background that the African Handbook of Climate Change Adaptation is being published It contains papers prepared by scholars representatives from social movements practitioners and members of governmental agencies undertaking research and or executing climate change projects in Africa and working with communities across the African continent Encompassing over 100 contributions from across Africa it is the most comprehensive publication on climate change adaptation in Africa ever produced

Biodiversity and Environmental Change Emma Burns, Andrew Lowe, Nicole Thurgate, David Lindenmayer, 2014-02-06 This data rich book demonstrates the value of existing national long term ecological research in Australia for monitoring environmental change and biodiversity Long term ecological data are critical for informing trends in biodiversity and environmental change The Terrestrial

Ecosystem Research Network TERN is a major initiative of the Australian Government and one of its key areas of investment is to provide funding for a network of long term ecological research plots around Australia LTERN LTERN researchers and other authors in this book have maintained monitoring sites often for one or more decades in an array of different ecosystems across the Australian continent ranging from tropical rainforests wet eucalypt forests and alpine regions through to rangelands and deserts This book highlights some of the temporal changes in the environment that have occurred in the various systems in which dedicated field based ecologists have worked Many important trends and changes are documented and they often provide new insights that were previously poorly understood or unknown These data are precisely the kinds of data so desperately needed to better quantify the temporal trajectories in the environment in Australia By presenting trend patterns and often also the associated data the authors aim to catalyse governments and other organisations to better recognise the importance of long term data collection and monitoring as a fundamental part of ecologically effective and cost effective management of the environment and biodiversity Allergenic Pollen Mikhail Sofiev, Karl-Christian

Bergmann, 2012-09-23 This is the first book to summarize all aspects of allergenic pollen production atmospheric distribution and health impacts as well as the means of monitoring and forecasting these phenomena Based on a four year effort by a large group of leading European scientists this book highlights the new developments in research on allergenic pollen including the modelling prospects and effects of climate change The multidisciplinary team of authors offers insights into the latest technology of detection of pollen and its allergenic properties forecasting methods and the influence of allergenic pollen on the population The comprehensive coverage in this book makes it an indispensable volume for anyone dealing with allergenic pollen worldwide Readers involved in environmental health aerobiology medicine and plant science will find this book of interest Food Security, Food Prices and Climate Variability Molly Brown, 2014-06-05 The agriculture system is

under pressure to increase production every year as global population expands and more people move from a diet mostly made up of grains to one with more meat dairy and processed foods This book uses a decade of primary research to examine how weather and climate as measured by variations in the growing season using satellite remote sensing has affected agricultural production food prices and access to food in food insecure regions of the world The author reviews environmental economics and multidisciplinary research to describe the connection between global environmental change changing weather conditions and local staple food price variability The context of the analysis is the humanitarian aid community using the guidance of the USAID Famine Early Warning Systems Network and the United Nations World Food Program in their response to food security crises These organizations have worked over the past three decades to provide baseline information on food production through satellite remote sensing data and agricultural yield models as well as assessments of food access through a food price database These datasets are used to describe the connection and to demonstrate the importance of these metrics in overall outcomes in food insecure communities

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