

Disturbance ecology

- Formalized with the publication “The Ecology of Disturbance and Patch Dynamics” in 1985
- Non-equilibrium perspectives communicated through new terms like:
 - Disturbance patch dynamics
 - Disturbance regime
 - Disturbance residuals
 - Environmental heterogeneity
 - Disturbance agent



Ecology Of Natural Disturbance And Patch Dynamics

Rachel S Tattersall



Ecology Of Natural Disturbance And Patch Dynamics:

The Ecology of Natural Disturbance and Patch Dynamics Steward T.A. Pickett, P. S. White, 2013-10-22 Ecologists are aware of the importance of natural dynamics in ecosystems Historically the focus has been on the development in succession of equilibrium communities which has generated an understanding of the composition and functioning of ecosystems Recently many have focused on the processes of disturbances and the evolutionary significance of such events This shifted emphasis has inspired studies in diverse systems The phrase patch dynamics Thompson 1978 describes their common focus The Ecology of Natural Disturbance and Patch Dynamics brings together the findings and ideas of those studying varied systems presenting a synthesis of diverse individual contributions Ecosystems of Disturbed Ground L.R. Walker, 1999-12-17 As the human population inexorably grows its cumulative impact on the Earth's resources is hard to ignore The ability of the Earth to support more humans is dependent on the ability of humans to manage natural resources wisely Because disturbance alters resource levels effective management requires understanding of the ecology of disturbance This book is the first to take a global approach to the description of both natural and anthropogenic disturbance regimes that physically impact the ground Natural disturbances such as erosion volcanoes wind herbivory flooding and drought plus anthropogenic disturbances such as forestry grazing mining urbanization and military actions are considered Both disturbance impacts and the biotic recovery are addressed as well as the interactions of different types of disturbance Other chapters cover processes that are important to the understanding of disturbance of all types including soil processes nutrient cycles primary productivity succession animal behaviour and competition Humans react to disturbances by avoiding exacerbating or restoring them or by passing environmental legislation All of these issues are covered in this book Managers need better predictive models and robust data collections that help determine both site specific and generalized responses to disturbance Multiple disturbances have a complex effect on both physical and biotic processes as they interact This book provides a wealth of detail about the process of disturbance and recovery as well as a synthesis of the current state of knowledge about disturbance theory with extensive documentation **Proceedings of the Symposium on the Ecology and Management of Dead Wood in Western Forests**, 2002 **Natural Disturbances and Historic Range of Variation** Cathryn H. Greenberg, Beverly S. Collins, 2015-10-26 This book discusses the historic range of variation HRV in the types frequencies severities and scales of natural disturbances and explores how they create heterogeneous structure within upland hardwood forests of the Central Hardwood Region CHR The book was written in response to a 2012 forest planning rule which requires that national forests be managed to sustain ecological integrity and within the natural range of variation of natural disturbances and vegetation structure Synthesizing information on HRV of natural disturbance types and their impacts on forest structure has been identified as a top need **Spatial Variability in Environmental Science** John P. Tiefenbacher, Davod Poreh, 2020-10-21 Spatial Variability in Environmental Science Patterns Processes and Analyses

includes eight studies that examine the issue of spatial variability in four areas of the environmental sciences atmospheric science geological science biological science and landscape science The topics range from monitoring of wind the urban heat island and atmospheric pollution to coastal geomorphology landscape planning and forest ecology the problem of introduced species to regional ecologies and a technique to improve the identification of human constructions in semi natural landscapes A small volume can only offer a small glimpse at the activities of scientists and insights into environmental science but the array of papers herein offers a unique view of the current scholarship *Air Pollution Effects on Biodiversity* J.R.

Barker,D.T. Tingey,2012-12-06 Biodiversity is the delicate ecological balance within biological systems such as species and populations Evidence suggests air pollution disrupts and impoverishes ecosystems processes and genetic and population diversity Based on a symposium conducted by the EPA s Environmental Research Laboratory this book pulls together current knowledge on the subject assesses its relevance and offers a framework for future research on the impact of air pollution on biodiversity through all levels of biological organization This text is particularly timely due to acid rain and other toxic problems The text also discusses the best available control technology management practices alternative chemicals and legislative ways to reduce the impact of air pollution on biodiversity **Proceedings--Symposium on Cheatgrass**

Invasion, Shrub Die-off and Other Aspects of Shrub Biology and Management ,1990 *Progress in Botany* Joachim W. Kadereit,2013-11-11 With one volume each year this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences The present volume includes reviews on genetics cell biology physiology comparative morphology systematics ecology and vegetation science *Ecological Forest Management*

Handbook Guy R. Larocque,2016-01-13 Forests are valued not only for their economic potential but also for the biodiversity they contain the ecological services they provide and the recreational cultural and spiritual opportunities they provide The Ecological Forest Management Handbook provides a comprehensive summary of interrelated topics in the field including management con **Seed Ecophysiology of Temperate and Boreal Zone Forest Trees** RobertE. Farmer,2017-11-01

This is the first truly modern book solely devoted to seed reproduction of forest trees from flowering to establishment with emphasis on the interaction of environment with physiological processes Focus is on seed function in natural settings and the application of information to natural regeneration of forests This easy to read text addresses important principles and provides in depth coverage of existing literature Presentation of the information is organized to allow for a natural development of the main theme with full explanations of such important components as seed production dispersal and germination as well as the integral parts played by water temperature light chemicals animals pathogens and aging A highly useful book for investigators practitioners or students **Encyclopedia of the Anthropocene** ,2017-11-27 Encyclopedia of the Anthropocene Five Volume Set presents a currency based global synthesis cataloguing the impact of humanity s global ecological footprint Covering a multitude of aspects related to Climate Change Biodiversity Contaminants Geological Energy

and Ethics leading scientists provide foundational essays that enable researchers to define and scrutinize information ideas relationships meanings and ideas within the Anthropocene concept Questions widely debated among scientists humanists conservationists politicians and others are included providing discussion on when the Anthropocene began what to call it whether it should be considered an official geological epoch whether it can be contained in time and how it will affect future generations Although the idea that humanity has driven the planet into a new geological epoch has been around since the dawn of the 20th century the term Anthropocene was only first used by ecologist Eugene Stoermer in the 1980s and hence popularized in its current meaning by atmospheric chemist Paul Crutzen in 2000 Presents comprehensive and systematic coverage of topics related to the Anthropocene with a focus on the Geosciences and Environmental science Includes point counterpoint articles debating key aspects of the Anthropocene giving users an even handed navigation of this complex area Provides historic seminal papers and essays from leading scientists and philosophers who demonstrate changes in the Anthropocene concept over time

Restoration of Boreal and Temperate Forests John A. Stanturf, 2015-08-14 This substantially updated new edition reflects the growing recognition that large areas of forests are degraded globally This edition describes forest restoration in the context of rapid social economic environmental and climate change Covering the last decade s significant advances in forest restoration concepts and practice this edition has 16 new chapters and 19 thoroughly revised chapters This book is an excellent source of information for researchers managers policymakers and graduate students in forestry and ecology

The Conservation of Cultural Landscapes Mauro Agnoletti, 2006-10-23 Landscape today is no longer just a cultural aspect intended as an elitist phenomenon but emerges as an essential element in the definition and the application of a modern approach in sustainable development Historical locally adapted distinctive and ingenious combinations of management practices have contributed and continue to contribute tremendously to the biodiversity of the world resulting not only in outstanding aesthetic beauty but in the sustained provision of multiple goods and services food and livelihood security and quality of life The development of policies to preserve and manage landscape resources has to face both the degradation of cultural landscape due to socio economic development and the need to develop appropriate methods and approaches This book presents different methodologies developed to analyse manage and plan landscape resources It reports recent research findings and case studies from Europe and North America suggesting also the revision of some orientations and views of the current policies concerning forestry rural development and nature conservation often contributing to degrade cultural landscapes

Wildlife and Landscape Ecology John A. Bissonette, 2012-12-06 Ecologists increasingly recognize the importance of scale in our understanding of nature Landscape ecology in particular emphasizes temporal and spatial scales While research and management of wildlife has traditionally emphasized studies at smaller scales it is now acknowledged that larger landscape level patterns strongly influence demographic processes in wild animal species This book is the first to provide the conceptual basis for learning how larger

scale patterns and processes can influence the biology and management of wildlife species It is divided into three sections Underlying Concepts Landscape Metrics Applications and Large Scale Management Wildlife and Landscape Ecology will be welcomed by scientists and managers with interest in and responsibility for the health of wild populations and their role in ecosystems

The Riverine Ecosystem Synthesis James H. Thorp, Martin C. Thoms, Michael D. DeLong, 2010-07-27 This book presents the most comprehensive model yet for describing the structure and functioning of running freshwater ecosystems Riverine Ecosystems Synthesis RES is a result of combining several theories published in recent decades dealing with aquatic and terrestrial systems New analyses are fused with a variety of new perspectives on how river network ecosystems are structured and function and how they change along longitudinal lateral and temporal dimensions Among these novel perspectives is a dramatically new view of the role of hydrogeomorphic forces in forming functional process zones from headwaters to the mouths of great rivers Designed as a useful tool for aquatic scientists worldwide whether they work on small streams or great rivers and in forested or semi arid regions this book will provide a means for scientists to understand the fundamental and applied aspects of rivers in general and includes a practical guide and protocols for analyzing individual rivers Specific examples of rivers in at least four continents Africa Australia Europe and North America serve to illustrate the power and utility of the RES concept Develops the classic seminal article in River Research and Applications A Model of Biocomplexity in River Networks Across Space and Time which introduced the RES concept for the first time A guide to the practical analysis of individual rivers extending its use from pristine ecosystems to modern human modified rivers An essential aid both to the study fundamental and applied aspects of rivers such as rehabilitation management monitoring assessment and flow manipulation of networks

Ecosystem Management Fred B. Samson, Fritz L. Knopf, 2013-12-01 Ecosystem management has emerged in the past several years as the new paradigm for managing public and private land It combines the principles of ecosystem level ecology with the policy requirements of resource and public land management This collection of selected readings will serve as an introduction to the concepts of biological diversity ecological process biotic integrity and ecological sustainability that underlie ecosystem management

Wilderness Science in a Time of Change Conference: Wilderness within the context of larger systems ,2000

Restoring Natural Capital James Aronson, Suzanne J. Milton, James N. Blignaut, 2012-09-26 How can environmental degradation be stopped How can it be reversed And how can the damage already done be repaired The authors of this volume argue that a two pronged approach is needed reducing demand for ecosystem goods and services and better management of them coupled with an increase in supply through environmental restoration Restoring Natural Capital brings together economists and ecologists theoreticians practitioners policy makers and scientists from the developed and developing worlds to consider the costs and benefits of repairing ecosystem goods and services in natural and socioecological systems It examines the business and practice of restoring natural capital and seeks to establish common ground between

economists and ecologists with respect to the restoration of degraded ecosystems and landscapes and the still broader task of restoring natural capital The book focuses on developing strategies that can achieve the best outcomes in the shortest amount of time as it considers conceptual and theoretical issues from both an economic and ecological perspective examines specific strategies to foster the restoration of natural capital and offers a synthesis and a vision of the way forward Nineteen case studies from around the world illustrate challenges and achievements in setting targets refining approaches to finding and implementing restoration projects and using restoration of natural capital as an economic opportunity Throughout contributors make the case that the restoration of natural capital requires close collaboration among scientists from across disciplines as well as local people and when successfully executed represents a practical realistic and essential tool for achieving lasting sustainable development

A Guidebook for Integrated Ecological Assessments Mark E. Jensen, Patrick S. Bourgeron, 2012-09-07 Ecosystem management requires a planning and decision making process that places land use in its appropriate ecological context Because ecological assessments must be conducted at various spatial scales and across jurisdictional boundaries approaches to assessment must be compatible and consistent with each other A Guidebook for Integrated Ecological Assessment analyzes methods and provides standards and protocols for assessment and the integration of data

Tree Rings and Natural Hazards Markus Stoffel, Michelle Bollschweiler, David R. Butler, Brian H. Luckman, 2010-07-15 Dendrogeomorphology Beginnings and Futures A Personal Reminiscence My early forays into dendrogeomorphology occurred long before I even knew what that word meant I was working as a young geoscientist in the 1960s and early 1970s on a problem with slope movements and deformed vegetation At the same time unknown to me Jouko Alestalo in Finland was doing something similar Both of us had seen that trees which produced annual growth rings were reacting to geomorphic processes resulting in changes in their internal and external growth patterns Dendroclimatology was an already well established field but the reactions of trees to other environmental processes were far less well understood in the 1960s It was Alestalo 1971 who first used the term dendrogeomorphology In the early 1970s I could see that active slope movement processes were affecting the growth of trees in diverse ways at certain localities I wanted to learn more about those processes and try to extract a long term chronology of movement from the highly diverse ring patterns

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