

Urban Ecology

An Introduction

Ian Douglas and Philip James



Routledge
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Urban Ecology An Introduction

Tony Whitten, Greg S. Henderson



Urban Ecology An Introduction:

Urban Ecology Philip James, Ian Douglas, 2023-12-22 This fully revised second edition reflects the great expansion in urban ecology research action and teaching since 2015 Urban ecology provides an understanding of urban ecosystems and uses nature based techniques to enhance habitats and alleviate poor environmental conditions Already the home to the majority of the world's people urban areas continue to grow causing ecological changes throughout the world To help students of all professions caring for urban areas and the people animals and plants that live in them the authors set out the environmental and ecological science of cities linkages between urban nature and human health urban food production in cities and how we can value urban nature The authors explore our responsibilities for urban nature and greening ecological management techniques and the use of nature based solutions to achieve a better more sustainable urban future and ensure that cities can climate change and become more beautiful and more sustainable places in which to live This text provides the student and the practitioner with a critical scientific overview of urban ecology that will be a key source of data and ideas for studies and for sound urban management

Urban Ecology Philip James, Ian Douglas, 2014-10-30 *Urban Ecology An Introduction* seeks to open the reader's mind and eyes to the way in which nature permeates everyday urban living and how it has to be understood cared for and managed in order to make our towns and cities healthier places to visit and in which to live and work The authors examine how nature can improve our physical and mental health the air we breathe and the waters we use as well as boosting our enjoyment of parks and gardens *Urban Ecology* sets out the science that underlies the changing natural scene and the tools used to ensure that cities become both capable of adapting to climate change and more beautiful and resilient The book begins with a discussion of the nature of urban places and the role of nature in towns and cities Part 1 looks at the context and content of urban ecology its relationship to other foci of interest within ecology and other environmental sciences and the character of city landscapes and ecosystems In Part 2 the authors set out the physical and chemical components of urban ecosystems and ecological processes including urban weather and climate urban geomorphology and soils urban hydrology and urban biogeochemical cycles In Part 3 urban habitats urban flora and fauna and the effects of deliberate and inadvertent human action on urban biota are examined Part 4 contains an exploration of the identification and assessment of ecosystem services in urban areas emphasising economic evaluation the importance of urban nature for human health and well being and restoration ecology and creative conservation Finally in Part 5 the tasks for urban ecologists in optimising and sustaining urban ecosystems providing for nature in cities adapting to climate change and in developing the urban future in a more sustainable manner are set out Within the 16 chapters of the book in which examples from around the world are drawn upon the authors explore current practice and future alternatives set out procedures for ecological assessment and evaluation suggest student activities and discussion topics provide recommended reading and an extensive bibliography The book contains more than 150 tables and over 150 photographs and diagrams

Urban Ecology Jari Niemelä, Jürgen H. Breuste, Glenn Guntenspergen, Nancy E. McIntyre, Thomas Elmqvist, Philip James, 2011-11-17 Urbanization is a global phenomenon that is increasingly challenging human society. It is therefore crucially important to ensure that the relentless expansion of cities and towns proceeds sustainably. Urban ecology, the interdisciplinary study of ecological patterns and processes in towns and cities, is a rapidly developing field that can provide a scientific basis for the informed decision making and planning needed to create both viable and sustainable cities. Urban Ecology brings together an international team of leading scientists to discuss our current understanding of all aspects of urban environments, from the biology of the organisms that inhabit them to the diversity of ecosystem services and human social issues encountered within urban landscapes. The book is divided into five sections, with the first describing the physical urban environment. Subsequent sections examine ecological patterns and processes within the urban setting, followed by the integration of ecology with social issues. The book concludes with a discussion of the applications of urban ecology to land use planning. The emphasis throughout is on what we actually know, as well as what we should know about the complexities of social ecological systems in urban areas, in order to develop urban ecology as a rigorous scientific discipline. *Ecology of Urban Environments* Kirsten M. Parris, 2016-03-02 Provides an accessible introduction to urban ecology using established ecological theory to identify generalities in the complexity of urban environments. Examines the bio physical processes of urbanization and how these influence the dynamics of urban populations, communities, and ecosystems. Explores the ecology of humans in cities. Discusses practical strategies for conserving biodiversity and maintaining ecosystem services in urban environments. Includes case studies with questions to improve retention and understanding. *Urban Ecosystems* Frederick R. Adler, Colby J. Tanner, 2013-04-25 As humans have come to dominate the earth, the ideal of studying and teaching ecology in pristine ecosystems has become impossible to achieve. Our planet is now a mosaic of ecosystems ranging from the relatively undisturbed to the completely built with the majority of people living in urban environments. This accessible introduction to the principles of urban ecology provides students with the tools they need to understand these increasingly important urban ecosystems. It builds upon the themes of habitat modification and resource use to demonstrate how multiple ecological processes interact in cities and how human activity initiates chains of unpredictable, unintended ecological consequences. Broad principles are supported throughout by detailed examples from around the world, and a comprehensive list of readings from the primary literature. Questions, exercises, and laboratories at the end of each chapter encourage discussion, hands-on study, active learning, and engagement with the world outside the classroom window. **The Routledge Handbook of Urban Ecology** Ian Douglas, P. M. L. Anderson, David Goode, Michael C. Houck, David Maddox, Harini Nagendra, Puay Yok Tan, 2020-12-15 This second edition covers recent developments around the world, with contributors from 33 different countries. It widens the handbook's scope by including ecological design, consideration of cultural dimensions of the use and conservation of urban nature, the roles of government and civil society, and the continuing issues of equity and

fairness in access to urban greenspaces New features include an emphasis on the biophilic design of homes and workplaces demonstrating the value of nature in order to counter the still prevalent attitude among many developers that nature is a constraint rather than a value The volume explores great practical achievements that have occurred since the first edition with many governments increasingly recognizing and legislating on urban nature and green infrastructure matters since cities play a major role in adapting to change particularly to climate crisis New topics such as the ecological role of light at night and human microbiota in the urban ecosystem are introduced Additional attention is given to food production in cities particularly the multiple roles of urban agriculture and household gardens in different contexts from wealthy communities to the poorest informal settlements in deprived communities The emphasis is on demonstrating what can be achieved and what is already being done The book aims to help scholars and graduate students by providing an invaluable and up to date guide to current urban ecological thinking across the range of disciplines such as geography ecology environmental science studies planning and urban studies that converge in the study of towns and cities and urban design and living It will also assist practitioners and civil society members in discovering the ways different specialists and thinkers approach urban nature

Urban Ecology John Marzluff, Eric Shulenberger, Wilfried Endlicher, Marina Alberti, Gordon Bradley, Clare Ryan, Craig ZumBrunnen, Ute Simon, 2008-01-03 Urban Ecology is a rapidly growing field of academic and practical significance Urban ecologists have published several conference proceedings and regularly contribute to the ecological architectural planning and geography literature However important papers in the field that set the foundation for the discipline and illustrate modern approaches from a variety of perspectives and regions of the world have not been collected in a single accessible book Foundations of Urban Ecology does this by reprinting important European and American publications filling gaps in the published literature with a few targeted original works and translating key works originally published in German This edited volume will provide students and professionals with a rich background in all facets of urban ecology The editors emphasize the drivers patterns processes and effects of human settlement The papers they synthesize provide readers with a broad understanding of the local and global aspects of settlement through traditional natural and social science lenses This interdisciplinary vision gives the reader a comprehensive view of the urban ecosystem by introducing drivers patterns processes and effects of human settlements and the relationships between humans and other animals plants ecosystem processes and abiotic conditions The reader learns how human institutions health and preferences influence and are influenced by the others members of their shared urban ecosystem

Urban Ecology in the Global South Charlie M. Shackleton, Sarel S. Cilliers, Elandrie Davoren, Marié J. du Toit, 2021-04-20 Against the background of unprecedented rates of urbanisation in the Global South leading to massive social economic and environmental transformations this book engages with the dire need to understand the ecology of such settings as the foundation for fostering sustainable and resilient human settlements in contexts that are very different to the Global North It does so by bringing together scholars from around the

world drawing together research and case studies from across the Global South to illustrate in an interdisciplinary and comprehensive fashion the ecology of towns and cities in the Global South Framed using a social ecological systems lens it provides the reader with an in depth analysis and understanding of the ecological dynamics and ecosystem services and disservices within the complex and rapidly changing towns and cities of the Global South a region with currently scarce representation in most of the urban ecology literature As such the book makes a call for greater geographical balance in urban ecology research leading towards a more global understanding and frameworks The book embraces the complexity of these rapid transformations for ecological and environmental management and how the ecosystems and the benefits they provide shape local ecologies livelihood opportunities and human wellbeing and how such knowledge can be mobilised towards improved urban design and management and thus urban sustainability

Nature All Around Us Beatrix Beisner, Christian Messier, Luc-Alain Giraldeau, 2012-09-21 It s easy to stand in awe of a city s impressive skyline marveling at its buildings reaching for the clouds and its vast network of roadways and train lines crisscrossing in every direction It can often seem like everything in a city is man made all concrete steel and glass But even the asphalt jungle is not all asphalt a sidewalk s cracks are filled with nature if we know where and how to look To aid us in this quest is *Nature All Around Us* which will help us to recognize and look after the natural world we traipse through in our daily lives *Nature All Around Us* uses the familiar such as summer Sundays humming with lawn mowers gray squirrels foraging in planters and flocks of pigeons in order to introduce basic ecological concepts In twenty five short chapters organized by scale from the home to the neighborhood to the city at large it offers a subtle and entertaining education in ecology sure to inspire appreciation and ultimately stewardship of the environment Various ecological concepts that any urban dweller might encounter are approachably examined from understanding why a squirrel might act aggressively towards its neighbor to how nutrients and energy contained within a discarded apple core are recycled back into the food chain Streaming through the work is an introduction to basic ecology including the dangers of invasive species and the crucial role played by plants and trees in maintaining air quality Taken as a whole *Nature All Around Us* is an unprecedented field guide to the ecology of the urban environment that invites us to look at our towns cities and even our backyards through the eyes of an ecologist It is an entertaining educational and inspiring glimpse into nature in seemingly unnatural settings a reminder that we don t have to trek into the wild to see nature we just have to open our eyes

International Encyclopedia of Geography, 15 Volume Set Noel Castree, Michael F. Goodchild, Audrey Kobayashi, Weidong Liu, Richard A. Marston, 2017-03-20 Zweifelsohne das Referenzwerk zu diesem weitgefächerten und dynamischen Fachgebiet The International Encyclopedia of Geography ist das Ergebnis einer einmaligen Zusammenarbeit zwischen Wiley und der American Association of Geographers AAG beleuchtet und definiert Konzepte Forschung und Techniken in der Geographie und zugehörigen Fachgebieten Die Enzyklopädie ist als Online Ausgabe und 15 bündige farbige Printversion erhältlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt

ist ein umfassender und fundierter Überblick über die Geographie in allen Erdteilen entstanden Enthält mehr als 1 000 Einträge zwischen 1 000 und 10 000 Wörtern die vornehmlich in grundlegende Konzepte einführen komplexe Themen erläutern und Informationen zu geographischen Gesellschaften aus aller Welt enthalten Entstanden unter der Mitarbeit von mehr als 900 Wissenschaftlern aus über 40 Ländern und bietet damit einen umfassenden und fundierten Überblick über die Geographie in allen Erdteilen Deckt das Fachgebiet umfassend ab und berücksichtigt auch die Richtungen Humangeographie Physikalische Geographie geographische Informationswissenschaften und Systeme Erdwissenschaften und Umweltwissenschaften Führt interdisziplinäre Sichtweisen zu geographischen Themen und Verfahren zusammen die auch für die Sozialwissenschaften Geisteswissenschaften Naturwissenschaften und Medizin von Interesse sind Printausgabe durchgängig in Farbe mit über 1 000 Illustrationen und Fotos Online Ausgabe wird jährlich aktualisiert

The Challenges of Long Term Ecological Research: A Historical Analysis Robert B. Waide, Sharon E. Kingsland, 2021-04-07 This volume explores the challenges of sustaining long term ecological research through a historical analysis of the Long Term Ecological Research Program created by the U S National Science Foundation in 1980 The book examines reasons for the creation of the Program an overview of its 40 year history and in depth historical analysis of selected sites Themes explored include the broader impact of this program on society including its relevance to environmental policy and understanding global climate change the challenge of extending ecosystem ecology into urban environments and links to creative arts and humanities projects A major theme is the evolution of a new type of network science involving comparative studies innovation in information management creation of socio ecological frameworks development of governance structures and formation of an International Long Term Ecological Research Network with worldwide reach The book's themes will interest historians philosophers and social scientists interested in ecological and environmental sciences as well as researchers across many disciplines who are involved in long term ecological research

Ecology of Sulawesi Tony Whitten, Greg S. Henderson, 2012-06-19 The Ecology of Sulawesi is a comprehensive ecological survey of one of Indonesia's least populated and most diverse islands It is hoped that it will prove useful to resource managers ecologists environmental scientists and local government personnel and be enlightening to Sulawesi's inhabitants and visitors Sulawesi is one of the least known islands of Indonesia and wise environmental management including the proper assessment of environmental management including the proper assessment of environmental impacts arising from development projects and other activities is currently very difficult

Applied Urban Ecology Matthias Richter, Ulrike Weiland, 2011-09-19 Applied Urban Ecology A Global Framework explores ways in which the environmental quality of urban areas can be improved starting with existing environmental conditions and their dynamics Written by an internationally renowned selection of scientists and practitioners the book covers a broad range of established and novel approaches to applied urban ecology Approaches chosen for the book are placed in the context of issues such as climate change green and open space development flood risk assessment threats to urban biodiversity and increasing

environmental pollution especially in the megacities of newly industrialized countries All topics covered were chosen because they are socially and socio politically relevant today Further topics covered include sustainable energy and budget management urban water resource management urban land management and urban landscape planning and design Throughout the book concepts and methods are illustrated using case studies from around the world A closing synopsis draws conclusions on how the findings of urban ecological research can be used in strategic urban management in the future

Applied Urban Ecology A Global Framework is an advanced textbook for students researchers and experienced practitioners in urban ecology and urban environmental research planning and practice Environmental Science in Focus Kimberly Frye,2013-08-08 This book examines what people need from nature how we acquire natural resources to meet those needs and how the choices of resource acquisition affect both nature and humans

The Cambridge Introduction to Literature and the Environment Timothy Clark,2011-01-06 The degrading environment of the planet is something that touches everyone This 2011 book offers an introductory overview of literary and cultural criticism that concerns environmental crisis in some form Both as a way of reading texts and as a theoretical approach to culture more generally ecocriticism is a varied and fast changing set of practices which challenges inherited thinking and practice in the reading of literature and culture This introduction defines what ecocriticism is its methods arguments and concepts and will enable students to look at texts in a wholly new way Boxed sections explain key critical terms and contemporary debates in the field with hands on examples and comparisons Timothy Clark s thoughtful approach makes this an ideal first encounter with environmental readings of literature

Ecology of Cities and Towns Mark J. McDonnell,Amy K. Hahs,Jürgen H. Breuste,2009-06-25 Assesses the current status and future challenges and opportunities of the ecological study design and management of cities and towns

Urban Ecology Kevin J. Gaston,2010-09-16 This is the urban century in which for the first time the majority of people live in towns and cities Understanding how people influence and are influenced by the green component of these environments is therefore of enormous significance Providing an overview of the essentials of urban ecology the book begins by covering the vital background concepts of the urbanisation process and the effect that it can have on ecosystem functions and services Later sections are devoted to examining how species respond to urbanisation the many facets of human ecology interactions and the issues surrounding urban planning and the provision of urban green spaces Drawing on examples from urban settlements around the world it highlights the progress to date in this burgeoning field as well as the challenges that lie ahead

Human Settlement Development - Volume I Saskia Sassen,2009-09-30 Human Settlement Development is a component of Encyclopedia of Institutional and Infrastructural Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Human Settlement Development deals in nine parts and four volumes with a myriad of issues of great relevance to our world such as Urban Sustainability and the Regional City System in the Asia Pacific Peri Urbanization Zones of Rural Urban

Transition Urban Sustainability Theoretical Perspectives on Integrating Economic Development and the Environment Rural Sustainability Using Foreign Direct Investment to Improve Urban Environmental Infrastructure and Services The Case of Hanoi Vietnam The Long Road Towards Sustainable Cities The Dutch case Urban Dimensions of Sustainable Development Rural Development Participation and Diversity for Sustainability The Cities the State and the Markets In Search of Sustainability These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Deep Learning for Earth Observation and Climate Monitoring Uzair Aslam Bhatti, Mir Muhammad Nizamani, Yong Wang, Hao Tang, 2025-03-19 Deep Learning for Earth Observation and Climate Monitoring bridges the gap between deep learning and the Earth sciences offering cutting edge techniques and applications that are transforming our understanding of the environment With a focus on practical scenarios this book introduces readers to the fundamental concepts of deep learning from classification and image segmentation to anomaly detection and domain adaptability The book includes practical discussion on regression parameter retrieval forecasting and interpolation among other topics With a solid foundational theory real world examples and example codes it provides a full understanding of how intelligent systems can be applied to enhance Earth observation and especially climate monitoring This book allows readers to apply learning representations unsupervised deep learning and physics aware models to Earth observation data enabling them to leverage the power of deep learning to fully utilize the wealth of environmental data from satellite technologies Introduces deep learning for classification covering recent improvements in image segmentation and encoding priors anomaly detection and target recognition and domain adaptability Includes both learning representations and unsupervised deep learning covering deep learning picture fusion regression parameter retrieval forecasting and interpolation from a practical standpoint Provides a number of physics aware deep learning models including the code and the parameterization of models on a companion website as well as links to relevant data repositories allowing readers to test techniques themselves

Ecology of Sumatra Tony Whitten, Sengli J. Damanik, 2012-06-26 The Ecology of Sumatra distills for the first time the information found in nearly 1 500 scholarly works relevant to an understanding of the full range of natural and man made ecosystems on the island many of them available only in Dutch German or Indonesian It was originally prepared by a team working at the Centre for Resource and Environmental Studies CRES at the University of North Sumatra to supplement existing documents This new version is aimed at general readers and includes a section on recent development on Sumatra as well as an additional bibliography of recent publications It contains hundreds of line drawings tables maps and photographs It is hoped that The Ecology of Sumatra will prove useful to resource managers ecologists environmental scientists and local government personnel and be enlightening to Sumatra s inhabitants and visitors It should also be of great interest to anyone wanting to learn about Southeast Asian biology

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