



# Butterfly Conservation

Saving butterflies, moths and our environment



# Ecology And Conservation Of Butterflies

**E. Pollard, T.J. Yates**



## Ecology And Conservation Of Butterflies:

Ecology and Conservation of Butterflies A.S. Pullin, 2012-12-06 This book was conceived to mark the Silver Jubilee of the British Butterfly Conservation Society Interest in the conservation of butterflies has increased so rapidly that it is difficult to relate to the situation 25 years ago Butterflies were on the decline in Britain Europe and elsewhere but we lacked data on the extent of the decline and the underlying reasons leaving us unable to implement effective conservation measures An early recognition of the plight of British butterflies and moths led to the foundation of the society by a small group of conservationists in 1968 Today the society has over 10000 members owns a number of reserves and sponsors research conservation and monitoring activities at the local and national level As part of the Silver Jubilee celebrations an international symposium was held at Keele University in September 1993 entitled Ecology and Conservation of Butterflies This symposium clearly showed how much important work has been done in recent years and also gave me the impression that the subject had reached a watershed This was not because the decline of butterflies has stopped or even slowed down far from it the threat to our butterflies continues to increase from habitat destruction and intensification of land use The watershed is in our understanding of the relationship between butterflies and their habitat

**Monitoring Butterflies for Ecology and Conservation** E. Pollard, T.J. Yates, 1993-05-31 Previously published in hardback and now made available in paperback this ground breaking book is a must for all interested in butterflies whether as conservation biologist amateur or professional entomologist or as a student studying the phenomenon of butterfly populations as part of a number of biology ecology or conservation courses Recently many British butterflies have suffered severe declines while others have flourished and expanded in range This is the first book to describe the results from a British scheme to monitor butterflies during this period of change The Monitoring Scheme initiated in 1976 by the senior author is based on frequent counts at some 90 sites throughout Britain The combined efforts of both amateurs and professionals have thus produced a dataset with no equivalent elsewhere in the world The book therefore provides a unique perspective on trends in numbers extinction and foundation of populations flight periods local distributions migration and other aspects of population ecology Practical problems encountered during the conservation of butterflies of individual sites are outlined The relevance of this monitoring for an understanding of the effects of the weather climatic warming is described

*Ecology and Conservation of Butterflies* A. S. Pullin, 1994-10-31

*Studies on the Ecology and Conservation of Butterflies in Europe: General Concepts and Case Studies* Elisabeth Kuhn, 2005

*Studies on the Ecology and Conservation of Butterflies in Europe*, 2005

*Butterflies* Carol L. Boggs, Ward B. Watt, Paul R. Ehrlich, 2003-07 In *Butterflies Ecology and Evolution Taking Flight* the world's leading experts synthesize current knowledge of butterflies to show how the study of these fascinating creatures as model systems can lead to deeper understanding of ecological and evolutionary patterns and processes in general The twenty six chapters are organized into broad functional areas covering the uses of butterflies in the study of behavior ecology genetics and evolution

systematics and conservation biology Especially in the context of the current biodiversity crisis this book shows how results found with butterflies can help us understand large rapid changes in the world we share with them for example geographic distributions of some butterflies have begun to shift in response to global warming giving early evidence of climate change that scientists politicians and citizens alike should heed The first international synthesis of butterfly biology in two decades Butterflies Ecology and Evolution Taking Flight offers students scientists and amateur naturalists a concise overview of the latest developments in the field Furthermore it articulates an exciting new perspective of the whole group of approximately 15 000 species of butterflies as a comprehensive model system for all the sciences concerned with biodiversity and its preservation Contributors Carol L Boggs Paul M Brakefield Adriana D Briscoe Dana L Campbell Elizabeth E Crone Mark Deering Henri Descimon Erika I Deinert Paul R Ehrlich John P Fay Richard ffrench Constant Sherri Fownes Lawrence E Gilbert Andr Gilles Ilkka Hanski Jane K Hill Brian Huntley Niklas Janz Greg Kareofelas Nusha Keyghobadi P Bernhard Koch Claire Kremen David C Lees Jean Fran ois Martin Ant nia Monteiro Paulo C sar Motta Camille Parmesan William D Patterson Naomi E Pierce Robert A Raguso Charles Lee Remington Jens Roland Ronald L Rutowski Cheryl B Schultz J Mark Scriber Arthur M Shapiro Michael C Singer Felix Sperling Curtis Strobeck Aram Stump Chris D Thomas Richard VanBuskirk Hans Van Dyck Richard I Vane Wright Ward B Watt Christer Wiklund and Mark A Willis

**Studies on the Ecology and Conservation of Butterflies in Europe: General concepts and case studies** Elisabeth Kühn,Josef Settele,Jeremy A. Thomas,2005

*North American Monarch Butterfly Ecology and Conservation* Jay E. Diffendorfer,Wayne E. Thogmartin,Ryan G. Drum,2020-10-23 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

*A Resource-Based Habitat View for Conservation* Roger L. H. Dennis,2010-02-08 Winner of the Marsh Book of the Year Award 2012 by the British Ecological Society In A Resource Based Habitat View for Conservation Roger Dennis introduces a novel approach to the understanding of habitats based on resources and conditions required by organisms and their access to them a quantum shift from simplistic and ineffectual notions of habitats as vegetation units or biotopes In drawing attention to what organisms actually use and need in landscapes it focuses on resource composition structure and connectedness all of which describe habitat quality and underpin landscape heterogeneity This contrasts with the current bipolar view of landscapes made up of habitat patches and empty matrix but illustrates how such a metapopulation approach of isolated patchworks can grow by adopting the new habitat viewpoint The book explores principles underlying this new definition of habitat and the impact of habitat

components on populations species distributions geographical ranges and range changes with a view to conserving resources in landscapes for whole communities It does this using the example of butterflies the most alluring of insects flagship organisms and key indicators of environmental health in the British Isles where they have been studied most intensively The book forms essential reading for students researchers and practitioners in ecology and conservation particularly those concerned with managing sites and landscapes for wildlife *Butterfly Conservation in North America* Jaret C

Daniels,2015-07-27 The book addresses this critical need by providing a straightforward and easy to read primer to key elements of at risk butterfly conservation programs including captive husbandry organism reintroduction habitat restoration population monitoring recovery planning and cooperative programs Impacts from habitat loss and fragmentation invasive species and climate change continue to accelerate the rate of imperilment and necessitate increased conservation action Zoos natural history museums botanical gardens and wildlife agencies are progressively focusing on insects particularly charismatic groups such as butterflies and native pollinators to help advance local conservation efforts and foster increased community interest and engagement Today many institutions and their partners have successfully initiated at risk butterfly conservation programs and numerous others are exploring ways to become involved However insufficient experience and familiarity with insects is a critical constraint preventing staff and institutions from adequately planning implementing and evaluating organism targeted activities The information provided is intended to improve staff practices learn from existing programs promote broader information exchange and strengthen institutional ability to develop new or improve existing butterfly conservation initiatives The information provided is intended to improve staff practices learn from existing programs promote broader information exchange and strengthen institutional ability to develop new or improve existing butterfly conservation initiatives This book will be useful to professionals from zoos natural history museums botanical gardens wildlife agencies conservation organizations land managers students and scientist in conservation biology ecology entomology biology and zoology Insect Ecology And Conservation Simone Fattorini,2008-01-01 Foreword In the last

twenty years insect conservation has attracted the attention of an increasing number of researchers as testified by the publication of textbooks e g 1 2 monographs e g 3 4 proceedings of symposia workshops and congresses e g 5 9 and two dedicated journals Journal of Insect Conservation started 1997 and Insect Conservation and Diversity a recently started journal This book is not intended to be a balanced comprehensive and up to date review of the latest developments in the fields of insect ecology and conservation Rather it is a selection of papers representing different perspectives in insect conservation The conceptual understanding needed to guide our actions in response to practical conservation problems obviously builds on basic researches in the fields of evolutionary biology genetics systematics ethology biogeography and ecology e g 10 The papers presented here offer a range of relevant and emerging themes that form the ecological basis of modern insect conservation Insects are frequently used as model systems in conservation biology However in contrast with

the veritable mountain of papers devoted to the conservation of single vertebrate species most of the research on insect conservation is multi species oriented being more focused on the preservation of species assemblages than single species see for examples papers published in the Journal of Insect Conservation The paper by Eva Maria Griebeler Henning Maas and Michael Veith presented here exemplifies current topics in landscape ecology and metapopulation biology from an entomological perspective This paper focused on the viability of the red winged grasshopper *Oedipoda germanica* in a dynamic mosaic of vineyards and abandoned lots in Germany is an example of a species oriented approach showing the importance of collecting accurate field data and using appropriate simulation models to draw valid conclusions about the future of a population Because basic knowledge money and time are limited one of the most debated problems in conservation biology is the use of indicator taxa as surrogates of the biodiversity of other taxa 11 15 This is particularly compelling for highly diverse areas ecosystems or animal groups like insects where it is difficult or even impossible to obtain complete inventories Although aquatic insects have long played an important role in conservation biology e g as bioindicators of water quality few studies have examined whether species richness community structure in different groups of stream insects shows similar patterns whether these patterns are governed by similar responses to the environment and whether there is temporal variability In their paper on the among taxon congruence in four major stream insects groups in Finland Jani Heino and Heikki Mykr found that predictions of species richness from environmental and spatial variables may be limited and should be used with caution in conservation planning They also found that no single stream insect group can be used as a surrogate of species richness and assemblage dissimilarity in other taxonomic groups and that the relationships between species richness and ecological gradients are variable and usually weak These findings underline the need to also consider taxonomically difficult groups and to promote taxonomic studies and skills as essential prerequisites for effective conservation actions Simon Grove Dick Bashford and Marie Yee present here a long term study with an extraordinary taxonomic effort to identify all saproxylic dead wood dependent beetles associated with large logs in Tasmania s wet eucalypt production forests They demonstrate the enormous richness of the saproxylic beetle fauna able to occupy *Eucalyptus obliqua* logs in their early stages of decomposition This paper offers an example of an experimental approach to the conservation implications of declining availability of large logs and shows that obligately saproxylic species were more numerous than facultative species Because of temporal and financial limitations most conservation studies resort to a snapshot approach which documents the fauna at a particular point in time which may span a year or more and may or may not also attempt to document temporal changes The study presented here underlines the importance of long term analyses This is especially compelling for saproxylic beetles as there is a succession of species according to the age of decaying logs Thanks to the long term approach these authors were able to show that very few species were common and most were rare In this paper rare species are considered those with few individuals sampled In addition to local population density other important dimensions

of rarity of a species may be its geographical range and degree of ecological specialization and these forms of rarity are discussed in other chapters Species rarity assessment is one of the most important targets in conservation biology The strong link between conservation and rarity lies in the idea that rare species have a greater threat of extinction than common species do 16 18 Thus conservation of rare species is driven by the view that the central goal of conservation is to prevent or limit the extinction of species But how well can the distribution and hence the concentration of geographically rare species be predicted by environmental characteristics Jorge Miguel Lobo Pierre Jay Robert and Jean Pierre Lumaret present an analysis of the spatial distribution of dung beetle rarity in France In the paper published here they considered three measures of geographical rarity number of rare species sum of rarity scores and mean of rarity scores to derive a synthetic rarity value Based on this index they found that for Scarabaeidae rarity hotspots corresponded to diversity species richness hotspots In this scenario the species of Scarabaeidae with comparatively larger distributions and wider environmental adaptations should be more likely to persist In contrast rarity and species richness were uncorrelated for Aphodiinae They argued that the distribution of warm adapted rare species of Scarabaeidae and Aphodiinae that have recently expanded range from southern refuges since the last glacial period would be explained by current climatic factors while the cold adapted Aphodiinae rare species that recently suffered a range contraction would be less predictable by contemporary environmental variables Thus this study underlines that rarity hotspots cannot be predicted only by current ecological factors but historical factors have to also be taken into account to explain some patterns The importance of historical biogeography in explaining current distribution patterns and in predicting future population dynamics is stressed in a paper on the conservation biogeography of Anatolian orthopterans by Battal iplak In this paper iplak uses an analogy between interglacial cycles and global warming to predict the future of glacial relicts taxa confined to high altitude since the last Ice Age Global warming is considered the main evolutionary force acting on global biodiversity and this action is similar to the effects of past interglacial warming periods The Anatolian peninsula was an important refugial area during Pleistocene glaciations but during each warming cycle some cold preferring species remained isolated on the summits of mountain ranges The consequences of global warming for these relict forms may involve niche changes range changes and population species extinction depending on species ecological tolerances evolutionary potential and dispersal abilities Some species could change easily their range by shifting their distribution latitudinally northwards or altitudinally upwards in response to increasing temperature but other species will be reduced to fragmented populations and may become extinct in the absence of suitable habitats outside their present distribution range This is especially true for rare species endemic to individual mountains that cannot colonize other areas Thus this paper not only shows how the study of past events can be used to predict the future of species dynamics but also underlines the importance of macro and microgeographic constraints in determining range changes Although the size of the geographical range of a species is an obvious measure of rarity other

forms of rarity should be considered especially at smaller scales In their paper on true rare and pseudo rare species Paulo A V Borges Karl I Ugland Francisco O Dinis and Clara S Gaspar used the insect and spider guilds on the island of Terceira Azores to shed light upon how recent historical land use changes may shape the distribution of individual arthropod species Island biogeography provided most of the conceptual foundations of conservation biology and for a long time the theory of island biogeography dominated much of conservation biology 19 Although this prominent role is now reduced by the increasing role of other disciplines like metapopulation biology and landscape ecology cf 19 20 island biogeography still provides an important theoretical and empirical framework for conservationists e g 21 23 Islands are natural laboratories and island populations will continue to represent a privileged target for conservationists Results obtained by Borges and coworkers indicate that numerous species may appear unduly rare because they are sampled in marginal sites or at the edge of their distribution The high dispersal abilities and wide ecological preferences of many insect and spider species imply that many species tend to be vagrants in several habitats and consequently are locally habitat pseudo rare species By contrast truly regionally rare species are those that are habitat specialists and many of them are threatened endemic species or recently introduced exotic species These findings provide clear evidence that adequate spatial data on abundance and habitat requirements of single species are needed to properly assess their rarity status at a regional scale Basic ecological information is an essential starting point for any conservation study and subsequent action However in most cases there is a serious lack of basic knowledge about biological processes for taxa which are of conservation concern In their paper on thermoregulation in dung beetles Jos R Verd and Jorge M Lobo explore the relevance of heat production and dissipation temperature control mechanisms on the ecology and biogeography of these insects Dung beetles include some of the most investigated species from the point of view of thermoregulation process Verd and Lobo offer a review of the relationships between flight and thermoregulation also providing new data on the variation in thermoregulation among species populations and individuals They show that both heat production and heat dissipation could be the consequence of evolutionarily contingent adaptations related to the environmental conditions of the regions where the different lineages evolved Thermal preferences are a neglected species trait in bioconservation Since preliminary evidence suggests that populations and individuals have a wide physiological plasticity it will be interesting to assess whether those species with a higher range of endothermic responses are also able to inhabit a higher variety of climatic conditions An interesting future line of research could be the comparison of the thermal niches between invaders and non invader dung beetles as well as between those species that seem to respond quickly or slowly to climatic changes Conservation research has been mostly focused on some well known insect groups like butterflies and some beetle families but the majority of insect taxa are ignored This is an obvious consequence of the extraordinary variety of insects and the impracticality of all groups being equally investigated Tenebrionid beetles are a large family of beetles for which ecological knowledge is still relatively limited especially in coastal



sandy areas where they represent one of the most important invertebrate groups by both biomass and diversity. Thus they are an important but usually neglected taxon in these highly threatened environments. I present here an extensive review of the ecology of tenebrionid beetles in Mediterranean coastal areas providing some clues about their conservation and their use as bioindicators in environmental assessment studies. In collecting papers for this book I made an effort to cover as many major insect taxa as possible. However the taxonomic coverage is obviously unbalanced and the lack of papers specifically dealing with the conservation of some taxa like butterflies or ground beetles which are among the most studied from a conservation perspective (24, 26) may be surprising. However I believe that this is not a serious shortcoming because these groups are extensively referred to in other books devoted to insect conservation (e.g. 1, 2, 5, 7, 9). What we have come up with finally I think is not a thorough survey of the field of insect ecology and conservation but rather an invitation to the field issued by some of its worldwide practitioners. Not all readers will be equally interested in every chapter but I feel that most readers will find something interesting and will be stimulated especially by chapters dealing with subjects outside their own fields of study. This volume begun as a response to an invitation by the Research Signpost. I thank Shankar G. Pandalai, Managing Editor of Research Signpost, for encouraging me to edit this volume and for all his assistance during the process. I welcome this opportunity to express publicly my obligation to all the contributors for responding so rapidly to my bullying and for sending their manuscripts so rapidly.

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**Insect Evolutionary Ecology** Royal Entomological Society of London. Symposium, 2005 Insects provide excellent model systems for understanding evolutionary ecology They are abundant small and relatively easy to rear and these traits facilitate both field and laboratory experiments This book has been developed from the Royal Entomological Society's 22nd international symposium held in Reading in 2003 Topics include speciation and adaptation life history phenotype plasticity and genetics sexual selection and reproductive biology insect plant interactions insect natural enemy interactions and social insects

**Economic and Ecological Significance of Arthropods in Diversified Ecosystems** Akshay Kumar Chakravarthy, Shakunthala Sridhara, 2016-10-20 Arthropods are invertebrates that constitute over 90% of the animal kingdom and their bio ecology is closely linked with global functioning and survival Arthropods play an important role in maintaining the health of ecosystems provide livelihoods and nutrition to human communities and are important indicators of environmental change Yet the population trends of several arthropods species show them to be in decline Arthropods constitute a dominant group with 1.2 million species influencing earth's biodiversity Among arthropods insects are predominant with ca 1 million species and having evolved some 350 million years ago Arthropods are closely associated with living and non living entities alike making the ecosystem services they provide crucially important In order to be effective plans for the conservation of arthropods and ecosystems should include a mixture of strategies like protecting key habitats and genomic studies to formulate relevant policies for in situ and ex situ conservation This two volume book focuses on capturing the essentials of arthropod inventories biology and conservation Further it seeks to identify the mechanisms by which arthropod populations can be sustained in terrestrial and aquatic ecosystems and by means of which certain problematic species be managed without producing harmful environmental side effects This edited compilation includes

chapters contributed by over 80 biologists on a wide range of topics embracing the diversity distribution utility and conservation of arthropods and select groups of insect taxa More importantly it describes in detail the mechanisms of sustaining arthropod ecosystems services and populations It addresses the contribution of modern biological tools such as molecular and genetic techniques regulating gene expression as well as conventional indigenous practices in arthropod conservation The contributors reiterate the importance of documenting and understanding the biology of arthropods from a holistic perspective before addressing conservation issues at large This book offers a valuable resource for all zoologists entomologists ecologists conservation biologists policy makers teachers and students interested in the conservation of biological resources

**Conservation Biology of Lycaenidae (Butterflies)** Timothy Richard New,1993 Lepidoptera and Conservation T. R. New,2013-09-13 The third in a trilogy of global overviews of conservation of diverse and ecologically important insect groups The first two were Beetles in Conservation 2010 and Hymenoptera and Conservation 2012 Each has different priorities and emphases that collectively summarise much of the progress and purpose of invertebrate conservation Much of the foundation of insect conservation has been built on concerns for Lepidoptera particularly butterflies as the most popular and best studied of all insect groups The long accepted worth of butterflies for conservation has led to elucidation of much of the current rationale of insect species conservation and to definition and management of their critical resources with attention to the intensively documented British fauna leading the world in this endeavour In Lepidoptera and Conservation various themes are treated through relevant examples and case histories and sufficient background given to enable non specialist access Intended for not only entomologists but conservation managers and naturalists due to its readable approach to the subject

The Changing Wildlife of Great Britain and Ireland David L. Hawksworth,2003-06-26 Periodic comprehensive overviews of the status of the diverse organisms that make up wildlife are essential to determining trends threats and future prospects Just over 25 years ago leading authorities on different kinds of wildlife came together to prepare an assessment of their status of a wide range of organisms in Great Britain and Ireland i

**Butterflies of New Jersey** Michael Gochfeld,Joanna Burger,1997 Butterfly watching has begun to gain the popularity that bird watching has enjoyed for half a century Much as birds served as a flagship of the conservation movement in this country butterflies are coming to be seen as the rallying point for the protection of invertebrate species now regarded as increasingly important for the well being of all members of the ecosystem Butterflies of New Jersey discusses the behavior status distribution taxonomy ecology and conservation of butterflies in New Jersey It is an innovative companion and complement to any butterfly identification guide of the Northeast It pays particular attention to the place of butterflies in the ecosystem of New Jersey and neighboring regions and their relationships to other butterflies around the world Its detailed species accounts of 140 plus kinds of butterflies found in the state and neighboring regions out of 700 North American species alert butterfly watchers to changes in populations over time Where other butterfly guides typically include a section on collecting butterflies this one includes a

detailed chapter on protecting them by creating butterfly gardens and preventing habitat destruction Butterflies of New Jersey is indispensable for everyone interested in the butterflies and natural history of the Garden State and its neighbor

*Dispersal Ecology* British Ecological Society. Symposium, 2002-08 Dispersal has become central to many questions in theoretical and applied ecology in recent years In this volume a team of leading ecologists aim to provide the advanced student and researcher with a comprehensive review of dispersal and its implications for modern ecology **The Ecology and Conservation of Butterflies on Lowland Arable Farmland** Ruth Feber, 1993 **Butterflies** Martin Warren, 2021-04-15 If you thought butterflies were special the clear intelligible science in this superb page turner will make you realise they re ultra special Matthew Oates This new addition to the British Wildlife Collection is a unique take on butterfly behaviour and ecology written by the former Chief Executive of Butterfly Conservation Martin Warren It explores the secret lives of our British species also drawing on comparative examples from continental Europe revealing how they have become adapted to survive in such a highly competitive natural world Combining personal anecdote with the latest discoveries in the scientific literature this book covers everything from why we love butterflies and their life cycle from egg to adult to their struggle for survival in a world of predators and parasites and the miracle of migration The final chapters explore how butterflies are recorded the change in their ranges and abundance during the 20th and 21st centuries and the significance of managing habitats at a landscape scale concluding with a passionate plea for why we must act now to reverse butterfly declines Insightful inspiring and a joy to read Butterflies is the culmination of a lifetime of careful research into what makes these beautiful insects tick and how and why we must conserve them

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