



Butterflies And Climate Change

Jessica Jane Hellmann



Butterflies And Climate Change:

Butterflies and Climate Change Roger L. H. Dennis, 1993 *Climatic Risk Atlas of European Butterflies* Josef Settele, 2008

Climate change will cause Europe to lose much of its biodiversity as projected by a comprehensive study on future butterfly distribution. The Climatic Risk Atlas of European Butterflies predicts northward shifts in potential distribution area of many European butterfly species. As early warning indicators of environmental change, butterflies are a valuable tool to assess overall climate change impact and to provide some indication on the chances to come nearer to the target of halting the loss of biodiversity by 2010 set by the EU Heads of State in 2001. The Climatic Risk Atlas of European Butterflies is based on the work of scores of scientists from across Europe. They applied climate change models to data collected by tens of thousands of volunteers. The authors say that some climate change is now inevitable and that the extent of the losses will depend on the degree of that change and how we respond to the new threat. Butterflies have already suffered huge losses across Europe following decades of habitat loss and changing farming and forestry practices. As temperatures rise, majority of butterfly species will try to head north. This won't always be achievable. The forestry and farming changes mean that areas of suitable habitat are now often small and too far apart for butterflies to travel between them. The worst case scenario scientists examined sees the average European temperature rise by 4.1°C by 2080. In that case, over 95 per cent of the present land occupied by 70 different butterflies would become too warm for continued survival. The best case scenario sees a 2.4°C temperature rise. Even this would mean that 50 per cent of the land occupied by 147 different butterflies would become too warm for them to continue to exist there. Many butterflies will largely disappear from where they are regularly seen now. The Small Tortoiseshell will become absent from a huge swathe of middle and southern Europe and will become restricted to northern Europe. Under the worst case scenario, rare species like the Spanish Festoon *Zerynthia rumina* would experience a 97% loss from Spain and Southern France and the Apollo *Parnassius apollo* would suffer a 76% loss from mountainous areas. Climate change is already having an impact on butterflies. Over 60 mobile species with widespread food plants are known to have spread north in Europe over recent decades, including the Comma *Polygonia c-album* which is spreading north in the UK at 10km per year. Other species have moved further up mountains. The chief author of Climatic Atlas of European Butterflies is Dr Josef Settele from the Helmholtz Centre for Environmental Research UFZ in Germany. He said: 'The Atlas shows for the first time how the majority of European butterflies might respond to climate change. Most species will have to shift their distribution radically to keep pace with the changes. The way butterflies change will indicate the possible response of many other insects which collectively comprise over two thirds of all species.' Dr Martin Warren, Chairman of Butterfly Conservation Europe and one of the authors, said: 'Evidence points to an acceleration in climate change after 2050 unless there is a significant decrease in global CO₂ emissions. This accelerated change would be the final nail in the coffin for many European species. We need to be ready for this worst case scenario. We need place more emphasis on

maintaining large diverse populations on existing habitats while re connecting habitats to allow species to move across the landscape This means working closely with farmers and planners Dr Ladislav Miko Director of Nature Conservation at the EU Environment Directorate in Brussels said We strongly welcome this important study which helps us understand how species might respond to climate change The evidence points to a radical change in species distribution which we must plan for within future European policies The results show the enormous scientific value of records from thousands of volunteers across Europe Sebastian Winkler Head of Countdown 2010 stated The astounding outcomes of this study should remind world leaders once more that if immediate action is not taken the 2010 biodiversity target will not be reached and biological diversity will continue to decline The Climatic Risk Atlas of European Butterflies was written by researchers from across Europe under the EU Sixth Framework programme projects ALARM Assessing Large scale Environmental Risks for biodiversity with tested Methods www.alarmproject.net and MACIS Minimisation of and Adaptation to Climate change Impacts on biodiversity www.macisproject.net Contacts Josef Settele Butterfly Conservation Europe Helmholtz Centre of Environmental Research UFZ Department of Community Ecology Tel xx 49 345 558 5320 Josef Settele ufz de Martin Warren Butterfly Conservation Europe Butterfly Conservation UK Tel xx 44 7775 590750 Dirk Maes Butterfly Conservation Europe Research Institute for Nature and Forest INBO xx 322 5581837 dirk.maes@inbo.be Tilo Arnhold Helmholtz Centre of Environmental Research UFZ PR Department Tel xx 49 341 235 1635 Tilo.Arnhold@ufz.de In cooperation with Pensoft Publishers

A Warmer World Caroline Arnold,2012-02-01 Adapt or face extinction The golden toad used to inhabit the cloud forests of Costa Rica but when the weather became too warm and dried up the pools where its eggs hatched the golden toad disappeared It has not been seen in more than twenty years This amphibian is just one of several species in *A WARMER WORLD* a thought provoking and informative account of how global climate change has affected wildlife over the past several decades Species by species acclaimed nonfiction children s author Caroline Arnold describes how warmer weather alters ecosystems forcing animals to adapt or become extinct Arnold s clear and straightforward text is complemented by Jamie Hogan s collage style illustrations Reminiscent of a nature journal the book will inspire readers to start their own research into this significant global issue A glossary and listing of websites and books for further exploration is included

Phenology of British butterflies and climate change D B. Roy,T H. Sparks,2000 [The Responses of Australian Butterflies to Climate Change](#) Katherine Elizabeth McClellan,2012 [Observed Impacts of Global Climate Change in the U.S.](#) Camille Parmesan,Hector Galbraith,2004 **Effects of Climate Change on Insects** Daniel González-Tokman,Wesley Dáttilo,2024-02-16 Anthropogenic climate change is the defining environmental challenge of this century posing an existential threat not only to humans but also to the vast array of plants and animals that inhabit our planet Among these insects reign as the largest and most diverse group of organisms playing critical roles in nutrient cycling pollination seed dispersal and population control of other species Additionally they serve as a vital food source for various taxa and act as

vectors for numerous human diseases This comprehensive but accessible text delves into the intricate world of these remarkable creatures with a focus extending beyond economically or medically significant species to encompass non model organisms In so doing it uncovers valuable insights into the implications posed by climate change on global insect populations The book reviews the conceptual approaches and most significant advances in our current understanding of insect physiology genetics ecology evolution and conservation within the ongoing and rapidly developing context of global anthropogenic climate change In addition to presenting historical information about climate change effects on insects it synthesizes the available knowledge concerning the impact of climate change on insect populations communities and ecosystem processes Furthermore it identifies the most relevant topics and promising methodological approaches for further research in this crucial field Effects of Climate Change on Insects has been written to engage a diverse audience catering to the curiosity of both students and researchers seeking knowledge on the critical subject of insect responses to climate change As the field continues to grow in importance it will be an indispensable resource for anyone seeking to comprehend the intricate interplay between these fascinating creatures and our ever changing world

Potential Impacts of Climate Change on Monarch Butterflies, *Danaus Plexippus* Rebecca Victoria Batalden,2011 *The Role of Environmental Variation in the Dynamics of an Insect-plant Interaction* Jessica Jane Hellmann,2000 *Wildlife Responses to Climate Change* Stephen H. Schneider,Terry Louise Root,2002 Wildlife Responses to Climate Change is the culmination of a three year project to research and study the impacts of global climate change on ecosystems and individual wildlife species in North America In 1997 the National Wildlife Federation provided fellowships to eight outstanding graduate students to conduct research on global climate change and engaged leading climate change experts Stephen H Schneider and Terry L Root to advise and guide the project This book presents the results with chapters describing groundbreaking original research by some of the brightest young scientists in America The book presents case studies that examine ways in which local and regional climate variables affect butterfly populations and habitat ranges how variations in ocean temperatures have affected intertidal marine species the potential effect of reduced snow cover on plants in the Rocky Mountains the potential effects of climate change on the distribution of vegetation in the United States how climate change may increase the susceptibility of ecosystems to invasions of non native species the potential for environmental change to alter interactions between a variety of organisms in whitebark pine communities of the Greater Yellowstone Ecosystem Also included are two introductory chapters by Schneider and Root that discuss the rationale behind the project and offer an overview of climate change and its implications for wildlife Each of the eight case studies provides important information about how biotic systems respond to climatic variables and how a changing climate may affect biotic systems in the future They also acknowledge the inherent complexities of problems likely to arise from changes in climate and demonstrate the types of scientific questions that need to be explored in order to improve our understanding of how climate change and other human

disturbances affect wildlife and ecosystems Wildlife Responses to Climate Change is an important addition to the body of knowledge critical to scientists resource managers and policymakers in understanding and shaping solutions to problems caused by climate change It provides a useful resource for students and scientists studying the effects of climate change on wildlife and will assist resource managers and other wildlife professionals to better understand factors affecting the species they are striving to conserve *The Responses of British Butterflies to Four Decades of Climate Change* Louise Mair,2014

Butterfly Migration Marvels William Martin,AI,2025-03-04 Butterfly Migration Marvels explores the extraordinary multi generational journey of monarch butterflies highlighting their incredible navigational abilities and the ecological challenges they face The book reveals how these delicate creatures weighing less than a gram undertake a migration of thousands of miles returning to the same overwintering sites as their ancestors Discover how scientists unraveled the mystery of the monarch s disappearance including the use of polarized light and the Earth s magnetic field for navigation The book takes an integrated approach delving into the science of monarch migration from their navigational mechanisms and physiological adaptations to the ecological pressures they face It emphasizes the interconnectedness of genetics behavior and ecology in understanding this complex system Habitat loss climate change and pesticide use pose significant threats to monarch populations making conservation efforts crucial The book progresses by first introducing the monarch and the basics of migration then exploring navigational science and finally examining ecological challenges and conservation strategies

Horticulture: Plants for People and Places, Volume 2 Geoffrey R. Dixon,David E. Aldous,2014-06-10 This Trilogy explains What is Horticulture Volume two of Horticulture Plants for People and Places analyses in depth the scientific managerial and ecological concepts which underpin Environmental Horticulture Chapters describe Horticulture and the Environment Woody Ornamentals Herbs and Pharmaceuticals Urban Greening Rural Trees Urban Trees Turfgrass Science Interior and External Landscaping Biodiversity Climate Change and Organic Production Each is written by leading international experts Sustainable use of resources and careful conservation are critically essential for the continuation of life on this Planet Achieving this is where horticulture natural flora and fauna and the environment interact in achieving sustainable development Horticulture is the fundamental partner of ecological and environmental science and provides an understanding of eco system services Live plant networks are essential for rural and urban life They are integral parts of natural communities the context of historic and modern architecture and a means for rejuvenating cities and uniting communities Plants provide urban peri urban and rural employment business and tourism opportunities leisure rest and relaxation These facets of Environmental Horticulture are clearly described in this book **The Entomologist's Record and Journal of Variation** James William Tutt,1910 Biodiversity and Climate Change Council of Europe,2010 The effects of climate change on ecosystems are complex The impact on the species and habitats protected by the Bern Convention may differ widely depending on the species their habitats and location This publication includes seven expert reports presenting

concrete measures for addressing the vulnerability of Europe's natural heritage in the face of climate change and its effects and how this heritage must adapt in order to survive. With this publication the Council of Europe aims to increase awareness about the links between biodiversity and climate and emphasise the large potential for synergies when addressing biodiversity loss and climate change in an integrated manner.

Wildlife Weekends in Southern British Columbia Roy Jantzen, 2025-06-24 An astounding new guidebook packed with colour photographs, day trips, personal reflections and a variety of activities for nature lovers of all ages. Wildlife Weekends invites readers to discover the wildlife that inhabit the ecosystems of southern British Columbia. Greater awareness may lead the reader to form a deeper appreciation and understanding of animals in their habitats, ultimately resulting in more people placing greater value on our role in protecting, conserving and even rewilding ecosystems. Written as a guidebook with 20 species-focused chapters covering southern British Columbia, Wildlife Weekends leads the reader to hardened sites, sites that already have viewing infrastructure in place such as trails, boardwalks, parking and restrooms within a six-hour drive from Vancouver. Each chapter guides the reader on a place-based discovery of the species in its local ecosystem. Topics include natural history, First Nations cultural or traditional ecological knowledge, connections, current scientific research and personal stories from wildlife researchers. Themes include how to engage and take action around a species, ethical viewing considerations, minimizing the carbon footprint of your experience and understanding how each species is affected by climate change. Special emphasis is placed on involving children and youth, ways to protect wildlife and resources to grow one's knowledge. Wildlife and locations span widely from killer whales off Saturna Island to hummingbirds in Princeton and from snakes in Osoyoos to bald eagles on the Chehalis Flats near Harrison. Species outlined range even more widely from tiny pika to enormous grey whales from endangered Vancouver Island marmots to iconic moose and colourful Canada darner dragonflies. Wildlife Weekends offers something for everyone.

Sierra Nevada Ecosystem Project Final Report to Congress Sierra Nevada Ecosystem Project, 1996

Is Climate Change the 21st Century's Most Urgent Environmental Problem? Indur M. Goklany, 2005

Climate Change Biology Jonathan A. Newman, 2011 Climate change has moved from a contested phenomenon to the top of the agenda at global summits. Climate Change Biology is the first major textbook to address the critical issue of how climate change may affect life on the planet and particularly its impact on human populations. Presented in three parts, the first deals extensively with the physical evidence of climate change and various modelling efforts to predict its future. Biological responses are then addressed from the individual's physiology to populations and ecosystems and further to considering adaptation and evolution. The final section examines the specific impact climate change may have on natural resources, particularly as these relate to human livelihood. This volume will be a useful asset to the growing number of both undergraduate and graduate courses on impacts of climate change as well as providing a succinct overview for researchers new to the field.

European Journal of Entomology, 2007

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