

Bird Migration and Global Change



George W. Cox

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Bird Migration and Global Change George W. Cox, 2010-07-07 Changes in seasonal movements and population dynamics of migratory birds in response to ongoing changes resulting from global climate changes are a topic of great interest to conservation scientists and birdwatchers around the world Because of their dependence on specific habitats and resources in different geographic regions at different phases of their annual cycle migratory species are especially vulnerable to the impacts of climate change In *Bird Migration and Global Change* eminent ecologist George W Cox brings his extensive experience as a scientist and bird enthusiast to bear in evaluating the capacity of migratory birds to adapt to the challenges of a changing climate Cox reviews synthesizes and interprets recent and emerging science on the subject beginning with a discussion of climate change and its effect on habitat and followed by eleven chapters that examine responses of bird types across all regions of the globe The final four chapters address the evolutionary capacity of birds and consider how best to shape conservation strategies to protect migratory species in coming decades The rate of climate change is faster now than at any other moment in recent geological history How best to manage migratory birds to deal with this challenge is a major conservation issue and *Bird Migration and Global Change* is a unique and timely contribution to the literature

Phenological Synchrony and Bird Migration Eric M. Wood, Jherime L. Kellermann, 2015-01-15 Bird migration is a well researched phenological event However few studies in North America have investigated the effects of climate change and extreme weather on the relationships of migratory avian species and their seasonal resources This is a critical gap in knowledge that limits our ability to prioritize management and conservation applications [Effects of Climate Change on Birds](#) Anders Pape Møller, Wolfgang Fiedler, Peter Berthold, 2010-08-12 Climate change affects all living organisms it has done so in the past and will do so in the future However current climate change is exceptional both in terms of the rate of change and the impact of multiple types of global change on individuals populations species and ecosystems *Effects of Climate Change on Birds* provides an exhaustive and up to date synthesis of the science of climate change as it relates to birds Compared with any other class of animals birds provide more long term data and extensive time series some dating back more than 100 years a more geographically and taxonomically diverse source of information and a longer tradition of extensive research In fact this research record exceeds what is available in all other organisms combined **Viral Infections and Global**

Change Sunit Kumar Singh, 2013-10-10 A timely exploration of the impact of global change on the emergence reemergence and control of vector borne and zoonotic viral infections From massively destructive superstorms to rapidly rising sea levels the world media is abuzz with talk of the threats to civilization posed by global warming But one hazard that is rarely discussed is the dramatic rise in the number and magnitude of tropical virus outbreaks among human populations One need only consider recent developments such as the spread of chikungunya across southern Europe and dengue in Singapore Brazil and the southern United States to appreciate the seriousness of that threat Representing a major addition to the world

literature on the subject Viral Infections and Global Change explores trends of paramount concern globally regarding the emergence and reemergence of vector borne and zoonotic viruses It also provides up to date coverage of both the clinical aspects and basic science behind an array of specific emerging and reemerging infections including everything from West Nile fever and Rift Valley fever to zoonotic hepatitis E and human bunyavirus Important topics covered include Epidemiology molecular pathogenesis and evolutionary mechanisms Host pathogen interactions in an array of viral infections The impact of climate change on historical viral outbreaks The roles of socioeconomics human behavior and animal and human migrations The growing prevalence of drug and pesticide resistance The introduction of microbes and vectors through increased transboundary travel Spillover transmissions and the emergence of viral outbreaks Detecting and responding to threats from bioterrorism and emerging viral infections Predictive modeling for emerging viral infections Viral Infections and Global Change is an indispensable resource for research scientists epidemiologists and medical and veterinary students working in ecology environmental management climatology neurovirology virology and infectious disease

Effects of Climate Change on Birds Peter O. Dunn, Anders Pape Møller, 2019 This new edition provides an exhaustive and up to date synthesis of the rapidly expanding literature on birds and climate change *Birds and Climate Change* James W. Pearce-Higgins, Rhys E. Green, 2014-06-12 From the red grouse to the Ethiopian bush crow bird populations around the world can provide us with vital insights into the effects of climate change on species and ecosystems They are among the best studied and monitored of organisms yet many are already under threat of extinction as a result of habitat loss overexploitation and pollution Providing a single source of information for students scientists practitioners and policy makers this book begins with a critical review of the existing impacts of climate change on birds including changes in the timing of migration and breeding and effects on bird populations around the world The second part considers how conservationists can assess potential future impacts quantifying how extinction risk is linked to the magnitude of global change and synthesising the evidence in support of likely conservation responses The final chapters assess the threats posed by efforts to reduce the magnitude of climate change

Animal Behavior Shawn E. Nordell, Thomas J. Valone, 2024 Animal behavior is a highly integrative field of study incorporating many biological levels of organization ranging from molecules to ecosystems This breadth provides students a unique learning environment to address research questions from both proximate and ultimate perspectives In addition animal behavior is an important component of understanding many current societal issues such as conservation climate change and the human animal bond **Birds and Climate Change**, 2004-11-13 Temperature and other climate variables are currently changing at a dramatic rate As observations have shown these climatic changes have serious consequences for all organisms and their ability to adapt to changing environmental conditions Birds are excellent model organisms with a very active metabolism they are highly sensitive to environmental changes and as highly mobile creatures they are also extremely reactive Birds and Climate Change discusses our current knowledge of observed changes and provides guidelines

for studies in the years to come so we can document and understand how patterns of changing weather conditions may affect birds Provides reviews of long term datasets Incorporates meta analyses of studies about climate change effects on birds Includes guidelines and suggestions for further studies *Climate Change Strategies: Handling the Challenges of Adapting to a Changing Climate* Walter Leal Filho, Marina Kovaleva, Fátima Alves, Ismaila Rimi Abubakar, 2023-06-01 This book includes information experiences practical initiatives and projects around the subject matter and makes it available to a wide audience It addresses the scientific social political and cultural aspects of climate change impacts and respective solutions in an integrated and coherent way Climate change as a global phenomenon imposes new challenges for survival Extreme weather events including heat waves storms droughts as well as rising sea levels warming oceans and melting glaciers threaten people s livelihoods and communities ecosystems and habitats Furthermore it affects the entire food chain and increases competition for natural resources fuelling socioeconomic tensions The results of the latest IPCC report highlight the urgent need for combating climate change The adaptation measures to be undertaken range across sectors thematic fields and geographical locations Based on this need the book focuses on the high quality interdisciplinary contributions on the scientific social economic political and cultural aspects of climate change challenges and solutions **Energy and Climate Change** Trevor Letcher, Vasilis M. Fthenakis, 2025-02-26 *Energy and Climate Change Our New Future* provides an understanding of future energy energy transition and climate change Sections cover key concepts enabling readers to better understand root causes and future implications while also assessing the current role and future outlook for fossil fuel based energy sources Coverage of the very latest cleaner energies gives readers tactics to solve the problems of global warming and climate change The book also explores how various renewable energy options are affected by climate change such as strong winds impacting wind turbines flooding of renewable energy infrastructure droughts affecting hydroelectric schemes rising temperatures affecting solar panels and more This is an invaluable resource for all those with an interest in energy transition renewable energy climate change and sustainability including researchers graduate students scientists engineers practitioners consultants industry leaders urban planners and government personnel Explains the fundamentals of climate change global warming energy transition and future energy and the connections between them Reviews current options and future pathways in the transition to non fossil fuel energy systems including environmental impact safety and potential capacity Offers complete authoritative coverage written by leading global experts

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