

"This marvellous book... needs to be read not just by ornithologists, but by all ecologists struggling to understand and predict the impacts of climate change on the living world."

JOHN LAWTON, Chairman,
Yorkshire Wildlife Trust and
Vice-President, RSPB

"... this book will be the first one I turn to when I want to find out more about climate change impacts on birds and the implications for conservation."

STUART BUTCHART, Head
of Science, BirdLife International

"... provides the most thorough and detailed review of this rapidly expanding research area yet published..."

IAN NEWTON, Emeritus Fellow,
Centre for Ecology and Hydrology



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.

Supplementary material is available for download at www.cambridge.org/9780521114288.

Cover illustration (front): a family party of the globally threatened Ethiopian bush-crow *Zavattarionis stresemanni*. This species occupies only a narrow temperature range, and may be particularly sensitive to future climate change. © Paul Donald; (back): a male red grouse *Lagopus lagopus scoticus*, a subspecies of willow grouse typical of heather moorland in Britain. Although many populations are heavily managed for sport shooting, the distribution and abundance of this species appear closely tied to climate. © Edmund Fellowes.

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