

Dana M. Bergstrom
Pete Convey
Ad H.L. Huiskes
Editors

Trends in Antarctic Terrestrial and Limnetic Ecosystems

Antarctica as a Global Indicator

The Antarctic provides a suite of scenarios useful for investigating the range of climate change effects on terrestrial and limnetic biota. The international SCAR programme RiSCC (Regional Sensitivity to Climate Change in Antarctic Terrestrial and Limnetic Ecosystems) investigated these scenarios with the goals of (1) understanding the likely response of Antarctic biota to changing climates, and (2) contributing to the development of broadly applicable theory concerning interactions between climate change, indigenous and introduced species, and ecosystem functioning. The programme drew upon both new and existing data.

The purpose of the book is to provide, based on the most up to date knowledge, a synthesis of the likely effects of climate change on Antarctic terrestrial and limnetic ecosystems and, thereby, to contribute to their management and conservation, based on the information.

A comprehensive yet accessible account of an ambitious and ultimately successful programme of research into the harsh environments of Antarctica. It provides an up to date account of how Antarctic terrestrial and limnetic environments are structured and their responses to regional and local climate changes. An essential book for those interested in polar regions ecology, in life at extremes and in the impact of rapid change on ecosystems.

J.C. Ellis-Evans, British Antarctic Survey, Cambridge, UK

This book is a much needed, and comprehensive evaluation of the global changes affecting the ice-free ecosystems of the Antarctic. This edited volume is extremely valuable for all scientists interested in understanding the impacts of global changes on terrestrial and freshwater ecosystems.

Diana H. Wall, Natural Resource Ecology Laboratory,
Colorado State University, Fort Collins, CO, USA

The polar regions include some of the most sensitive sites on our Planet, where we can already recognize the signs of what we call Global Change. Experts who can explain these signals based on their research over extended periods of time in the area are needed. This book is therefore a milestone, as it has collected the most actual facts about the Antarctic region and allows us to look at the phenomenon from both physical and biological perspectives. It is a "must" for all who are concerned about our environment.

Ludger Kappen, Institute of Polar Ecology,
University of Kiel, Germany

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