

Ecological Studies 17

Fennoscandian Tundra Ecosystems

Part 2

Animals and Systems Analysis

Edited by F. E. Wielgolaski



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Ecological Studies Volume 17 Analysis And Synthesis
Fennoscandian Tundra Ecosystems Part 2 Animals And
Systems Analysis

Wolfgang Guggemos



Ecological Studies Volume 17 Analysis And Synthesis Fennoscandian Tundra Ecosystems Part 2 Animals And Systems Analysis:

Fennoscandian Tundra Ecosystems P. Kallio, Frans Emil Wielgolaski, H. Kauri, E. Ostbye, T. Rosswall, 2012-12-06

Animals are important components of any ecosystem and it is impossible to describe structure and functioning of the Fennoscandian tundra ecosystems without including this part of the system. However, the strong diversity between functionally highly different fauna groups makes it impossible to study all groups in great detail with the funds and expertise available in Fennoscandia. Relatively few productivity studies were carried out on animals in Fennoscandian tundra regions before the IBP projects started in 1969-1970. Within IBP, more fauna groups have been investigated in the Norwegian tundra project than in the other countries due to better financial support. Even in Norway, however, only a limited number of invertebrate and vertebrate taxons is studied. General lack of information on the same animals in various parts of the Fennoscandian tundra makes it more difficult to present structural and functional comparisons of fauna for the whole region than in plants and microorganisms. See Part 1 of Fennoscandian Tundra Ecosystems. Brief surveys on faunal problems within the area are given in the introduction to the animal section and general aspects are also discussed in the four first papers of the volume.

Arctic Animal Ecology Hermann Remmert, 2012-12-06

A large number of comprehensive publications has been devoted to the Antarctic to its plant and animal life. It is therefore relatively easy to familiarize oneself with the current state of Antarctic research. Nothing comparable is available for the Arctic. The heterogeneity and richness of the northern polar regions seem to have discouraged any attempt at a synthetic approach. This book has evolved from an attempt to summarize the results of 15 years of ecological and physiological research work in the Arctic, mostly on Spitsbergen. The necessity of comparing our results and the ecological conditions of Spitsbergen with other arctic regions grew into a full-sized book on arctic animal ecology. It is not meant as an exhaustive survey of the relevant literature. Instead, I have tried to show how closely the various fields of research are interwoven, how many questions can be solved if only notice is taken of fellow scientists and their results, and how much arctic animals have in common. This book would not have been possible without the helpfulness of many colleagues. Above all, I should like to mention Professor Ronning and Professor Solem of Trondheim University, Norway; Professor Arnthor Gardasson of Reykjavik University, Iceland; Dr. Nettleship, Dr. Oliver, and Dr. Ryder of Canada; and Professor West of Fairbanks University, Alaska, USA.

Perspectives in Grassland Ecology N.R. French, 2012-12-06

This volume is a result of the summary and synthesis of data collected in the Grassland Biome Program, which is part of the American contribution to the International Biological Program (IBP). The purpose of this volume is to present a summary of quantitative ecological investigations of North American grasslands and to present a set of broad comparisons of their characteristics and functions, as well as the results of some models and experiments that lead to practical considerations of the management of grasslands. Synthesis is a continuing activity in science. Early in the Grassland

Biome Program there was a synthesis of literature data on grasslands edited by R L Dix and R G Beidleman 1969 Results of the first year of field data collection under this program were synthesized in a volume edited by N R French 1971 Development of the large scale model constructed to depict the processes and the dynamics of state variables in grassland ecosystems was presented by Innis 1978 Soon to appear will be two volumes integrating studies of American grasslands with IBP studies in other grasslands of the world Coupland in press and the application of systems analysis to understanding grassland function and utilization Breymeyer and Van Dyne in press The present volume presents current results and comparisons of field investigations and experimental studies that were conducted under this program *Fennoscandian Tundra Ecosystems* F. E. Wielgolaski, 1975 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Polish Ecological Studies** ,1980 *Naturwissenschaftliche Rundschau* ,1977 *Krypto Gesamt-Katalog Nr. 4, Botanik (Biologie)* F. Flück-Wirth, 1979 *Przegląd zoologiczny* ,1977 **National Agricultural Library Catalog** National Agricultural Library (U.S.), 1978 *Systems Analysis of Two Old Field Ecosystems* Peter A. Opstrup, 1969

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