

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
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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.

Remote Sensing for Environmental Sciences E. Schanda, 2012-12-06 The public's serious concern about the uncertainties and dangers of the consequences of human activities on environmental quality demands policies to control the situation and to prevent its deterioration. But far-reaching decisions on the environmental policy are impaired or even made impossible as long as the relevant ecological relations are not sufficiently understood and large-scale quantitative information on the most important parameters is not available in sufficient quality and quantity. The techniques of remote sensing offer new ways of procuring data on natural phenomena with three main advantages: the large

distance between sensor and object prevents interference with the environmental conditions to be measured the potentiality for large scale and even global surveys yields a new dimension for the investigations of the environmental parameters the extremely wide spectral range covered by the whole diversity of sensors discloses many properties of the environmental media not detectable within a single wave band as e g the visible These significant additions to the conventional methods of environmental studies and the particular qualification of several remote sensing methods for quantitative determination of the natural parameters makes this new investigation technique an important tool both to the scientists studying the ecological relationship and the administration in charge of the environmental planning and protection **Fennoscandian**

Tundra Ecosystems F. E. Wielgolaski,1975 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 grass lands 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 **Water and Plant Life** O.L. Lange,Ludger Kappen,E.-D.

Schulze,2012-12-06 **Grasslands, Systems Analysis and Man** A. I. Breymeyer,George M. van Dyne,1980-03-20 This 1980 book was a synthesis of much of the recent work on the functioning of grassland ecosystems at the time

Entomological Revue ,2002 Bibliography and Index of Geology ,1985 Scientific and Technical Books and Serials in Print ,1984 Naturwissenschaftliche Rundschau ,1977 Acta Botanica Fennica ,1999 Przegląd zoologiczny ,1977

Krypto Gesamt-Katalog Nr. 4, Botanik (Biologie) F. Flück-Wirth,1979 **Insect Herbivory** Ian D. Hodkinson,M. K. Hughes,1982-10-21 This book attempts to summarize what we know about insect plant relationships without becoming too involved with untestable hypotheses It is not intended to be comprehensive and we have deliberately excluded discussion of aquatic organisms and fungi Our definition of insect herbivores is intentionally broad It includes all insects which feed on plants although we have emphasized those which feed primarily on the photosynthetic tissues Some reference is made to seed predation but pollination ecology is excluded We thank Drs P H Smith and M Luxton for their helpful comments on the

manuscript but we accept full responsibility for any mistakes which may remain Finally we thank the various publishers and a uthor who gave us permission to use copyright material 7 I Introduction The net primary production of the 300000 speeies of vaseular plant whieh inhabit the dry land surfaee of the earth has been estimated at 9 about 115 x 10 t per annum This represents a massive resouree potentially available for exploitation by the herbivorous inseets which themselves probably number in exeess of 500000 species *Books in Print Supplement* ,1982 *Books in Print* ,1981 **International Books in Print, 1988** Archie Rugh,1988 **Deutsche Nationalbibliographie und Bibliographie des im Ausland erschienenen Deutschsprachigen Schriftums** ,1976 *Wiadomości botaniczne* ,1975

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