1335

Biomonitoring: General and applied aspects on regional and global scales

edited by C.A. Burga and A. Kratochwil

Kluwer Academic Publishers

Tasks for vegetation science 35

SERIES EDITORS

A. Kratochwil, University of Osnabrück, Germany H. Lieth, University of Osnabrück, Germany

The titles published in this series are listed at the end of this volume.

Biomonitoring: General and Applied Aspects on Regional and Global Scales

Edited by

C.A. BURGA

University of Zürich, Department of Geography, Zürich, Switzerland

and

A. KRATOCHWIL

University of Osnabrück, Department of Biology/Ecology, Osnabrück, Germany



KLUWER ACADEMIC PUBLISHERS

DORDRECHT / BOSTON / LONDON

Chapter C	Aspects of global change in the Alps and in the high arctic region	153
	onitoring of mountain peaks in the Alps M. Gottfried & H. Pauli	153
Monitoring o C.A. Burga &	f Eastern and Southern Swiss Alpine timberline ecotones <i>R. Perret</i>	179
Observed cha G. Carraro, I	nges in vegetation in relation to climate warming P. Gianoni, R. Mossi, F. Klötzli & GR. Walther	195
Laurophyllisa GR. Walthe	ation - A sign of a changing climate? r	207
in a high arct	lant community patterns, phytomass and carbon balance ic tundra ecosystem under a climate of increasing cloudiness <i>Wüthrich & D. Thannheiser</i>	225

BIOMONITORING: GENERAL AND APPLIED ASPECTS ON REGIONAL AND GLOBAL SCALES edited by C.A. Burga and A. Kratochwil

This volume contains a selection of 14 articles dealing with different aspects of biomonitoring and their relation to questions of global change. The first part concerns general aspects of biomonitoring, the second part gives examples of applied biomonitoring in Germany and Switzerland (changes in species composition phenologies, vegetation restoration, changes in soil conditions, heavy metal concentrations). The third part deals with climate-related monitoring studies of arctic-alpine and temperate regions of the northern hemisphere (mountain peaks and timberline ecotones of the Alps, spread of exotic evergreen broad-leaved plants, phytomass and carbon balance in Svalbard).



KLUWER ACADEMIC PUBLISHERS

TAVS 35