

Cambridge University Press

978-0-521-10064-9 - Ecology of Arctic Environments: Special Publication Number 13 of
the British Ecological Society

Edited by Sarah J. Woodin and Mick Marquiss

Table of Contents

[More information](#)

Contents

Preface	v
1 E.A. FitzPatrick. Arctic soils and permafrost	1
2 C.H. Robinson & P.A. Wookey. Microbial ecology, decomposition and nutrient cycling	41
3 R.E. Longton. The role of bryophytes and lichens in polar ecosystems	69
4 F.S. Chapin III, J.P. McFadden & S.E. Hobbie. The role of arctic vegetation in ecosystem and global processes	97
5 R.M.M. Crawford. Habitat fragility as an aid to long-term survival in arctic vegetation	113
6 J.S. Bale, I.D. Hodgkinson, W. Block, N.R. Webb, S.C. Coulson & A.T. Strathdee. Life strategies of arctic terrestrial arthropods	137
7 I. Stirling & N.J. Lunn. Environmental fluctuations in arctic marine ecosystems as reflected by variability in reproduction of polar bears and ringed seals	167
8 D.R. Bazely & R.L. Jefferies. Trophic interactions in arctic ecosystems and the occurrence of a terrestrial trophic cascade	183
9 E. Steinnes. Pathways and effects of contaminants in the Arctic	209
10 S.J. Woodin. Effects of acid deposition on arctic vegetation	219
11 L.O. Björn, T.V. Callaghan, C. Gehrke, D. Gwynn-Jones, B. Holmgren, U. Johanson & M. Sonesson. Effects of enhanced UV-B radiation on subarctic vegetation	241

Cambridge University Press

978-0-521-10064-9 - Ecology of Arctic Environments: Special Publication Number 13 of the British Ecological Society

Edited by Sarah J. Woodin and Mick Marquiss

Table of Contents

[More information](#)

iv

Contents

12	W.C. Oechel, A.C. Cook, S.J. Hastings & G.L. Vourlitis.	255
	Effects of CO ₂ and climate change on arctic ecosystems	
	Index	275