

Contents

<i>List of contributors</i>	<i>page xi</i>
<i>Foreword by Julia Marton-Lefèvre</i>	<i>xix</i>
<i>Acknowledgements</i>	<i>xxi</i>
1 Peatland restoration and ecosystem services: an introduction	1
<i>Aletta Bonn, Tim Allott, Martin Evans, Hans Joosten and Rob Stoneman</i>	
Part I Peatland ecosystems services	17
2 Peatlands across the globe	19
<i>Hans Joosten</i>	
3 Peatland biodiversity and its restoration	44
<i>Tatiana Minayeva, Olivia Bragg and Andrey Sirin</i>	
4 The role of peatlands in climate regulation	63
<i>Hans Joosten, Andrey Sirin, John Couwenberg, Jukka Laine and Pete Smith</i>	
5 Peatland restoration and hydrology	77
<i>Jonathan Price, Chris Evans, Martin Evans, Tim Allott and Emma Shuttleworth</i>	
6 Peatlands as knowledge archives	95
<i>Benjamin Gearey and Ralph Fyfe</i>	
7 Peatlands and cultural ecosystem services	114
<i>Kerry A. Waylen, Robert van de Noort and Kirsty L. Blackstock</i>	
8 Peatlands and climate change	129
<i>Angela V. Gallego-Sala, Robert K. Booth, Dan J. Charman, I. Colin Prentice and Zicheng Yu</i>	

	Part II Perspectives on peatland restoration	151
9	Blanket mire restoration and its impact on ecosystem services <i>Tim Thom, Martin Evans, Chris Evans and Tim Allott</i>	153
10	Restoration of temperate fens: matching strategies with site potential <i>Wiktor Kotowski, Michael Acreman, Ab Grootjans, Agata Klimkowska, Holger Rößling and Bryan Wheeler</i>	170
11	A conceptual framework for ecosystem restoration applied to industrial peatlands <i>Martha D. Graf and Line Rochefort</i>	192
12	Afforested and forestry-drained peatland restoration <i>Russell Anderson, Harri Vasander, Neville Geddes, Anna Laine, Anne Tolvanen, Aileen O'Sullivan and Kaisu Aapala</i>	213
13	Restoration of high-altitude peatlands on the Ruoergai Plateau (Northeastern Tibetan Plateau, China) <i>Xiaohong Zhang, Martin Schumann, Yongheng Gao, J. Marc Foggin, Shengzhong Wang and Hans Joosten</i>	234
14	Ecosystem services, degradation and restoration of peat swamps in the South East Asian tropics <i>René Dommain, Ingo Dittrich, Wim Giesen, Hans Joosten, Dipa Satriadi Rais, Marcel Silvius and Iwan Tri Cahyo Wibisono</i>	253
	Part III Socio-economic and political solutions to managing natural capital and peatland ecosystem services	289
15	International carbon policies as a new driver for peatland restoration <i>Hans Joosten, John Couwenberg and Moritz von Unger</i>	291
16	Valuing peatland ecosystem services <i>Sabine Wichmann, Luke Brander, Achim Schäfer, Marije Schaafsma, Pieter van Beukering, Dugald Tinch and Aletta Bonn</i>	314
17	Paludiculture: sustainable productive use of wet and rewetted peatlands <i>Hans Joosten, Greta Gaudig, Franziska Tanneberger, Sabine Wichmann and Wendelin Wichtmann</i>	339

	CONTENTS	ix
18 Peatland conservation at the science–practice interface	358	
<i>Joseph Holden, Aletta Bonn, Mark Reed, Sarah Buckmaster, Jonathan Walker, Martin Evans and Fred Worrall</i>		
19 Policy drivers for peatland conservation	375	
<i>Rob Stoneman, Clifton Bain, David Locky, Nick Mawdsley, Michael McLaughlan, Shashi Kumaran-Prentice, Mark Reed and Vicki Swales</i>		
20 Peatland restoration and ecosystem services: nature-based solutions for societal goals	402	
<i>Aletta Bonn, Tim Allott, Martin Evans, Hans Joosten and Rob Stoneman</i>		
<i>References</i>	418	
<i>Index</i>	484	