## Contents

Forewo	contributors ord vledgements	vii ix xii xii xvi xix
INTRO	DUCTION	
1	Social structural processes and environmental problem solving  Michele L. Barnes, Örjan Bodin, and Christina Prell	2
2	Ecological nodes in a social-ecological network: a social science perspective  Manuel Fischer, Karin Ingold, and Julia Schegg	23
PART I	ENVIRONMENTAL MANAGEMENT AND POLICY	
3	Seed circulation networks, the missing link between crop diversity and sustainable agriculture  Vanesse Labeyrie, Sophie Donnet, Sophie Caillon, Eric Garine, and  Christine Raimond	38
4	Diversification in small-scale fisheries beyond harvesting: the role of regional trade networks  Blanca González-Mon, Örjan Bodin, Xavier Basurto, Carla Lanyon-Garrido, Adrián Munguia-Vega, Mateja Nenadovic, and Amy Hudson Weaver	55
5	Bridging networks in polycentric systems: the case of sea-level rise adaptation Francesca Pia Vantaggiato, Mark Lubell, and Chien-Shih Huang	86
PART	II DIFFUSION AND ADOPTION OF ENVIRONMENTAL POLICIES AND BEHAVIOURS	
6	Conservation technology diffusion as a complex contagion  Emmanuel K. Mbaru, Michele L. Barnes, and Joshua Cinner	110
7	Local information networks and coffee-agroforestry practices: evidence from a randomized controlled-trial from Indonesia  Ayu Pratiwi and Petr Matous	130

PARTI	II RISK, DISASTERS, AND RECOVERY	
8	A system perspective to flood planning combining multiple multilevel collaboration networks  Bridget McGlynn, Angela M. Guerrero, Julia Baird, Örjan Bodin, and Ryan Plummer	155
9	Social networks and post-disaster mental health: Bayesian analysis for partially observed network data in a bushfire-affected community H. Colin Gallagher, Johan Koskinen, Jonathan Januar, and Elle Pattenden	180
10	The importance and challenges of multi-level cooperative wildfire management  Cody Evers, Matthew Hamilton, and Christoph Neger	200
PART I	V CLIMATE ADAPTATION AND MITIGATION	
11	How herders on the Qinghai-Tibetan Plateau of China rely on their socrelations to adapt to varying environmental conditions  Haibin Chen and Örjan Bodin	ial 223
12	Climate policy networks Tuomas Ylä-Anttila, David Tindall, Antti Gronow, Jeffrey Broadbent, Maria Brockhaus, Marlene Kammerer, Aasa Karimo, Anniina Kotkaniemi, Anna Kukkonen, Arttu Malkamäki, Petr Ocelik, Keiichi Satoh, Mark C. J. Stoddart, Pradip Swarnakar, and Paul Wagner	244
13	Network segregation and learning in climate change adaptation policy Adam Douglas Henry, Jessica Bolson, Timothy Kirby, and Michael C. Sukop	
PART V	POWER, JUSTICE AND EQUITY	
14	Social networks, sustainability interventions, and power Petr Matous, Michele L. Barnes, and Stewart Clegg	280
15	Information networks for equitable climate-smart agriculture Rachel S. Friedman and Astrid Vachette	296
16	Which networks matter, how, and at which scale? Global trade network that drive climate change and local stakeholder networks that support climate action  Christina Prell and Klaus Hubacek	314
CONCL	USION	
17	A synthesis and afterword: Handbook of Social Networks and the Environment Örjan Bodin and Michele L. Barnes	337
Index		342