

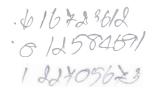
3



The Routledge Handbook of Environmental History

Edited by Emily O'Gorman, William San Martín, Mark Carey and Sandra Swart





# THE ROUTLEDGE HANDBOOK OF ENVIRONMENTAL HISTORY



Edited by Emily O'Gorman, William San Martín, Mark Carey and Sandra Swart



# CONTENTS

	List of Illustrations List of Contributors Acknowledgements	xii xxi
	Introduction: Framing Environmental History Today and for the Future Emily O'Gorman, Mark Carey, William San Martín, and Sandra Swart	1
PAR Ne	w Methods, Innovative Approaches	15
1	Ethics, Justice, and Environmental Histories Heather Goodall, Madhuri Mondal, and Meera Anna Oommen	17
2	Oral and Environmental History: Time, Place, Decolonisation, and the More-Than-Human World Katie Holmes and Aet Annist	36
3	Sounding Environments  Hedley Twidle and Aragorn Eloff	49
4	Geographic Information Systems, Remote Sensing, and Spatial Data Infrastructure Marina Miraglia and Kairo da Silva Santos	66

#### Contents

	RT II on-Human Agencies	77		
5	The Tangled Bank Harriet Ritvo and Rebecca Woods	79		
6	Multispecies Cultures and Environmental Change: The Animal (Agency) Turn Diogo de Carvalho Cabral and Heta Lähdesmäki	91		
7	Animal and Vector-Borne Diseases, Zoonoses, and One Health Lyle Fearnley and Melissa Salm	106		
8	The Non-Human in Agriculture: Technologies of Agriculture and Non-Human Aspects of Farming Veronika Settele and Claiton Marcio da Silva	124		
9	(Inter)national and (Trans)regional Agents: The Coastal Sand Dunes of Mozambique Joana Gaspar de Freitas, Inês Macamo Raimundo, Ignacio García Pereda, and Dissanayake Mudiyanselage Ruwan Sampath	142		
10	Actor-Networks, Conservation Treaties, and International Environmental History: Re-assembling Conventions Raf De Bont and Simone Schleper	156		
11	Hazards and Disasters: Locusts, Earthquakes, Volcanoes, Floods, Droughts Katrin Kleemann and Admire Mseba	171		
PART III Engaging with the Planetary and the Anthropocene 185				
	Planetary Boundaries, Climate Change, and the Anthropocene Ruth A. Morgan and Cristián Simonetti	187		
13	Extinction in Environmental History: Historicising Problems of Classification and Intentionality  Dolly Jørgensen and Miles Powell	204		
14	Temporality and Environmental History in the Anthropocene: Timing Climates, Modelling Futures Emil Flatø and Erik Isberg	217		

## Contents

15	Fossil Fuels from Extraction to Emissions Antoine Acker, Elizabeth Chatterjee, Lukas Becker, Matthew Shutzer, and Nathalia Capellini	229
	RT IV wer, Flows, and Knowledges	245
16	Global Histories of Environment and Labour in Asia and Africa Mattin Biglari and Olisa Godson Muojama	247
1 <i>7</i>	Toxicity, Racial Capitalism, and Colonial Mining: Lessons from Cyanide and Gold Mining in Zimbabwe (Southern Rhodesia)  Elijah Doro and Marco Armiero	261
18	Local Fishermen Knowledge and Scientific Expertise in Eastern Europe and West Africa: Assessing the Unseen Stefan Dorondel, Veronica Mitroi-Tisseyre, and Youssoupha Tall	274
19	Historical Memory and Technocratic Failures in Environmental Impact Assessments Javiera Barandiarán and Ricardo Oyarzún	289
20	Cities, Food, Water, and Environmental History in China, the USA, and India: Making Bubbles Shen Hou and David Biggs	304
21	Urban Environmental Governance: Historical and Political Ecological Perspectives from South Asia Jenia Mukherjee and René Véron	319
PART V Practices and Actions for Current Socio-Ecological Crises 33		
22	Pedagogy for the Depressed: Empowerment and Hope in the Face of the Apocalypse  Michelle K. Berry and Emily Wakild	337
23	Activist Environmental History: On War Machines and Guerrilla Strategies Regina Horta Duarte, Bruna Luiza Costa Pessoa, and Lucas Erichsen	352

### Contents

24	Communicating Environmental History: Reaching Diverse Audiences through Online Forums Jonatan Palmblad and Jessica M. DeWitt	368
25	Environmental History in Museums: Past Practice and Future Opportunities  Luke Keogh, Liisi Jääts, Nina Möllers, and Libby Robin	385
26	Environmental Historians, Policy, and Governance Alessandro Antonello and Margaret Cook	399
27	Future Directions in Environmental History Cintia Velázquez-Marroni, Jessica Urwin, Nicolo Paolo Ludovice, Bryan Umaru Kauma, Sangay Tamang, and Jayson Maurice Porter	413
Index		429