

CONTENTS

Introduction *Mara J. Goldman and Matthew D. Turner* 1

PART 1

PRODUCTION OF ENVIRONMENTAL KNOWLEDGE:

SCIENTISTS, COMPLEX NATURES, AND THE QUESTION OF AGENCY

Introduction *Matthew D. Turner* 25

- 1 Politicizing Environmental Explanations: What Can Political Ecology Learn from Sociology and Philosophy of Science? *Tim Forsyth* 31
- 2 Debating the Science of Using Marine Turtles: Boundary Work among Species Experts *Lisa M. Campbell* 47
- 3 Technobiological Imaginaries: How Do Systems Biologists Know Nature? *Joan H. Fujimura* 65
- 4 Agency, Structuredness, and the Production of Knowledge within Intersecting Processes *Peter J. Taylor* 81
- 5 Fermentation, Rot, and Other Human-Microbial Performances *Mrill Ingram* 99
- 6 Ferricrete, Forests, and Temporal Scale in the Production of Colonial Science in Africa *Chris Duvall* 113

PART 2

APPLICATION OF ENVIRONMENTAL KNOWLEDGE:

THE POLITICS OF CONSTRUCTING SOCIETY/NATURE

Introduction *Paul Nadasdy* 129

- 7 “We Don’t Harvest Animals; We Kill Them”: Agricultural Metaphors and the Politics of Wildlife Management in the Yukon *Paul Nadasdy* 135
- 8 Political Violence and Scientific Forestry: Emergencies, Insurgencies, and Counterinsurgencies in Southeast Asia *Peter Vandergeest and Nancy Lee Peluso* 152

- 9 Spatial-Geographic Models of Water Scarcity and Supply in Irrigation Engineering and Management: Bolivia, 1952–2009 *Karl S. Zimmerer* 167
- 10 The Politics of Connectivity across Human-Occupied Landscapes: Corridors near Nairobi National Park, Kenya
Mara J. Goldman 186

PART 3

CIRCULATION OF ENVIRONMENTAL KNOWLEDGE: NETWORKS, EXPERTISE, AND SCIENCE IN PRACTICE

- Introduction *Mara J. Goldman* 203
- 11 Rooted Networks, Webs of Relation, and the Power of Situated Science: Bringing the Models Back Down to Earth in Zambrana *Dianne Rocheleau* 209
- 12 Circulating Science, Incompletely Regulating Commodities: Governing from a Distance in Transnational Agro-Food Networks *Ryan E. Galt* 227
- 13 Reclaiming the Technological Imagination: Water, Power, and Place in India *Roopali Phadke* 244
- 14 Circulating Knowledge, Constructing Expertise *Rebecca Lave* 263
- 15 Experiments as “Performances”: Interpreting Farmers’ Soil Fertility Management Practices in Western Kenya *Joshua J. Ramisch* 280

Conclusion *Matthew D. Turner* 297

References 305

List of Contributors 343

Index 345