

# Contents

|          |                                                                                                                                             |            |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>1</b> | <b>Introduction to Integrating Ecology and Poverty Reduction .....</b>                                                                      | <b>1</b>   |
|          | Fabrice DeClerck, Jane Carter Ingram,<br>and Cristina Rumbaitis del Rio                                                                     |            |
| <b>2</b> | <b>Introduction to Ecological Dimensions of Hunger.....</b>                                                                                 | <b>13</b>  |
|          | Fabrice DeClerck                                                                                                                            |            |
| <b>3</b> | <b>Ecosystem Services in Agricultural Landscapes .....</b>                                                                                  | <b>17</b>  |
|          | Sean M. Smukler, Stacy M. Philpott, Louise E. Jackson,<br>Alexandra-Maria Klein, Fabrice DeClerck, Leigh Winowiecki,<br>and Cheryl A. Palm  |            |
| <b>4</b> | <b>Ecology and Human Nutrition.....</b>                                                                                                     | <b>53</b>  |
|          | Roseline Remans, Jessica Fanzo, Cheryl A. Palm,<br>and Fabrice DeClerck                                                                     |            |
| <b>5</b> | <b>Landscape Approaches to Achieving Food Production,<br/>Natural Resource Conservation, and the Millennium<br/>Development Goals .....</b> | <b>77</b>  |
|          | Jeffrey C. Milder, Louise E. Buck, Fabrice DeClerck,<br>and Sara J. Scherr                                                                  |            |
| <b>6</b> | <b>Introduction to Water, Poverty, and Ecology:<br/>A Vision for Sustainability .....</b>                                                   | <b>109</b> |
|          | Casey Brown                                                                                                                                 |            |
| <b>7</b> | <b>Ecology and Poverty in Watershed Management .....</b>                                                                                    | <b>113</b> |
|          | Timothy O. Randhir and Ashley G. Hawes                                                                                                      |            |
| <b>8</b> | <b>Balancing Human and Ecosystem Needs for Water<br/>in Urban Water Supply Planning .....</b>                                               | <b>127</b> |
|          | Thomas FitzHugh, Colin Apse, Ridge Schuyler,<br>and John Sanderson                                                                          |            |

|           |                                                                                                             |     |
|-----------|-------------------------------------------------------------------------------------------------------------|-----|
| <b>9</b>  | <b>Water, Ecosystems, and Poverty:<br/>Roadmap for the Coming Challenge</b> .....                           | 151 |
|           | Casey Brown                                                                                                 |     |
| <b>10</b> | <b>Introduction to Human Health, Ecosystems,<br/>and Poverty Reduction</b> .....                            | 163 |
|           | Samuel S. Myers                                                                                             |     |
| <b>11</b> | <b>Land Use Change and Human Health</b> .....                                                               | 167 |
|           | Samuel S. Myers                                                                                             |     |
| <b>12</b> | <b>The Health Impacts of Climate Change and Ecological<br/>Diagnosis and Treatment</b> .....                | 187 |
|           | Jeremy Hess and Samuel S. Myers                                                                             |     |
| <b>13</b> | <b>Disease Ecology</b> .....                                                                                | 217 |
|           | Felicia Keesing and Richard S. Ostfeld                                                                      |     |
| <b>14</b> | <b>Human Health as an Ecosystem Service:<br/>A Conceptual Framework</b> .....                               | 231 |
|           | Karen Levy, Gretchen Daily, and Samuel S. Myers                                                             |     |
| <b>15</b> | <b>Introduction to Ecological Dimensions<br/>of Global Energy Poverty</b> .....                             | 253 |
|           | Cristina Rumbaitis del Rio                                                                                  |     |
| <b>16</b> | <b>Ecological Context for Sustainable Energy Solutions</b> .....                                            | 257 |
|           | Susan C. Doll                                                                                               |     |
| <b>17</b> | <b>Ecology–Poverty Considerations for Developing Sustainable<br/>Biomass Energy Options</b> .....           | 279 |
|           | David J. Ganz, David S. Saah, Jill Blockhus, and Craig Leisher                                              |     |
| <b>18</b> | <b>Ecological Sustainability of Woodfuel as an Energy Source<br/>in Rural Communities</b> .....             | 299 |
|           | Rob Bailis, Jeff L. Chatellier, and Adrian Ghilardi                                                         |     |
| <b>19</b> | <b>Introduction to the Ecological Dimensions<br/>of Climate Change and Disasters</b> .....                  | 327 |
|           | Cristina Rumbaitis del Rio                                                                                  |     |
| <b>20</b> | <b>The Role of Ecosystems in Building Climate Change Resilience<br/>and Reducing Greenhouse Gases</b> ..... | 331 |
|           | Cristina Rumbaitis del Rio                                                                                  |     |

|                                                                                                                |            |
|----------------------------------------------------------------------------------------------------------------|------------|
| <b>21 Improving Understanding of Climatic Controls<br/>on Ecology in Development Contexts .....</b>            | <b>353</b> |
| Anton Seimon                                                                                                   |            |
| <b>22 Incorporating Ecology and Natural Resource Management<br/>into Coastal Disaster Risk Reduction .....</b> | <b>369</b> |
| Jane Carter Ingram and Bijan Khazai                                                                            |            |
| <b>23 Integrating Natural Resource Management<br/>into Disaster Response and Mitigation .....</b>              | <b>393</b> |
| Julie A. March                                                                                                 |            |
| <b>Conclusion: Integrating Ecology and Poverty Reduction .....</b>                                             | <b>407</b> |
| Jane Carter Ingram, Fabrice DeClerck,<br>and Cristina Rumbaitis del Rio                                        |            |
| <b>Index .....</b>                                                                                             | <b>415</b> |

Integrating Ecology and Poverty Reduction

Ecological Dimensions

Ingram, J.C.; DeClerck, F.; Rumbaitis del Rio, C. (Eds.)

2012, XX, 428 p., Hardcover

ISBN: 978-1-4419-0632-8