

Contents

II. Earth’s Life Support Systems

The State and Future of Antarctic Environments in a Global Context
Steven L. Chown and Cassandra M. Brooks 1

Island Biodiversity in the Anthropocene
James C. Russell and Christoph Kueffer 31

Mammal Conservation: Old Problems, New Perspectives,
Transdisciplinarity, and the Coming of Age of Conservation
Geopolitics
David W. Macdonald 61

The State of the World’s Mangrove Forests: Past, Present, and Future
*Daniel A. Friess, Kerrylee Rogers, Catherine E. Lovelock, Ken W. Krauss,
Stuart E. Hamilton, Shing Yip Lee, Richard Lucas, Jurgenne Primavera,
Anusha Rajkaran, and Subua Shi* 89

III. Human Use of the Environment and Resources

Food Loss and Waste: Measurement, Drivers, and Solutions
*Edward S. Spang, Laura C. Moreno, Sara A. Pace, Yigal Achmon,
Irwin Donis-Gonzalez, Wendi A. Gosliner, Madison P. Jablonski-Sheffield,
Md Abdul Momin, Tom E. Quested, Kiara S. Winans, and Thomas P. Tomich* 117

Sustainable Living: Bridging the North-South Divide in Lifestyles
and Consumption Debates
Bronwyn Hayward and Joyashree Roy 157

Status, Institutions, and Prospects for Global Capture Fisheries
Christopher Costello and Daniel Ovando 177

Illegal Wildlife Trade: Scale, Processes, and Governance
*Michael ‘t Sas-Rolfes, Daniel W.S. Challender, Amy Hinsley,
Diogo Verissimo, and E.J. Milner-Gulland* 201

Ecotourism for Conservation?
Amanda L. Stronza, Carter A. Hunt, and Lee A. Fitzgerald 229

Land-Management Options for Greenhouse Gas Removal
and Their Impacts on Ecosystem Services and the Sustainable
Development Goals
*Pete Smith, Justin Adams, David J. Beerling, Tim Beringer,
Katherine V. Calvin, Sabine Fuss, Bronson Griscom, Nikolas Hagemann,
Claudia Kammann, Florian Kraxner, Jan C. Minx, Alexander Popp,
Phil Renforth, Jose Luis Vicente Vicente, and Saskia Keesstra* 255

Sanitation for Low-Income Regions: A Cross-Disciplinary Review
*Christopher Hyun, Zachary Burt, Yoshika Crider, Kara L. Nelson,
C.S. Sharada Prasad, Swati D.G. Rayasam, William Tarpeh, and Isha Ray* 287

IV. Management and Governance of Resources and Environment

Co-Producing Sustainability: Reordering the Governance of Science,
Policy, and Practice
*Carina Wyborn, Amber Datta, Jasper Montana, Melanie Ryan, Peat Leith,
Brian Chaffin, Clark Miller, and Lorrae van Kerkhoff* 319

Social Synergies, Tradeoffs, and Equity in Marine Conservation
Impacts
*David A. Gill, Samantha H. Cheng, Louise Glew, Ernest Aigner,
Nathan J. Bennett, and Michael B. Mascia* 347

Toward REDD+ Implementation
*Danae Maniatis, Joel Scriven, Inge Jonckheere,
Jennifer Laughlin, and Kimberly Todd* 373

Solar Geoengineering: Social Science, Legal, Ethical,
and Economic Frameworks
*Jane A. Flegal, Anna-Maria Hubert, David R. Morrow,
and Juan B. Moreno-Cruz* 399

V. Methods and Indicators

Is Natural Capital Really Substitutable?
François Cohen, Cameron J. Hepburn, and Alexander Teytelboym 425

Indexes

Cumulative Index of Contributing Authors, Volumes 35–44 449

Cumulative Index of Article Titles, Volumes 35–44 455