

## Contents

- 1 Introduction and Acknowledgments • 7  
*Jennifer Palmer and David Harmon*
- 2 Sea Turtles, Light Pollution, and Citizen Science: A Preliminary Report • 9  
*Heather Afford, Susan Teel, Mark Nicholas, Thomas Stanley, and Jeremy White*
- 3 Mapping Invasive Species to Efficiently Monitor Southwestern National Park Areas • 16  
*Ryan Avery, Dakoyta Greenman, Katherine Landesman, Jordan Vaa, and Timmera Whaley*
- 4 Bringing Historical Perspectives on Climate into Current Adaptation Practice • 23  
*Alanna Casey*
- 5 Utilizing NASA Earth Observations to Map Temporal and Spatial Patterns of Annual Bromes for Prairie Management and Invasive Species Control in the Northern Great Plains • 29  
*Amanda Clayton, Jessica Fayne, Carl Green, and Jared Tomlin*
- 6 Creating Connections through Predictive Modeling and Cultural Resources Research • 36  
*Lindsey Cochran, David A. Gadsby, and Tad Britt*
- 7 A Ten-Step Program that Links Monitoring to Management • 44  
*Peter Dratch, Bill Thompson, Melinda Knutson, Emily Silverman, Ken Newman, and Joel H. Reynolds*
- 8 Changing Climate, Changing Policy:  
Subsistence Use and Wilderness Values in Gates of the Arctic National Park • 49  
*Chris Dunn*
- 9 Wilderness Character Monitoring Continues on National Wildlife Refuges • 57  
*Marissa Edwards and Peter Dratch*
- 10 Historical and Ecological Considerations in the Establishment of  
National Parks and Monuments • 60  
*Mary K. Foley and Tim Hudson*
- 11 Reflections on the Past, Present, and Future of Civic Engagement in National Parks • 66  
*David Glassberg*
- 12 Charting a Path:  
A Critical History and Analysis of Social Science in America's National Parks • 72  
*James H. Gramann*
- 13 National Colonial Farm in Piscataway Park:  
Green History, Farming, and the Quest for Relevance • 77  
*Lisa Hayes*

- 14** Fulfilling the Promise: Improving Collaboration between Cultural Resources and Interpretation and Education in the U.S. National Park Service • **82**  
*Emily Button Kambic, Dean Herrin, and Katherine Crawford-Lackey*
- 15** Using Digital Point-Intercept and Sub-meter Navigation to Assess Vegetation Recovery in Fire Island’s Wilderness • **88**  
*C.R. Kilheffer, J. Raphael, L. Ries, and H.B. Underwood*
- 16** Western Highways Transportation Corridor: Adaptation and Challenges for Preserving a Cultural Landscape Today • **96**  
*Gwénaëlle Le Parlouër*
- 17** Evaluating Diverse Trail Projects Using Standardized Assessment Tools: Conservation Corps Example • **103**  
*Katelin McArdle, Chelsey Walden-Schreiner, Elizabeth Oliphant, Michael B. Edwards, Yu-Fai Leung, Gary Blank, and Erin Seekamp*
- 18** The Goldilocks Syndrome • **109**  
*Martha Merson, Louise Allen, Nickolay Hristov, Jim Pfeiffenberger, Paul E. Super, Brent Everitt, Susan Teel, and Tim Watkins*
- 19** Letting the Landscape Speak: Values and Challenges of “Historic Abandonment” Design and Management at Fort Bowie National Historic Site • **115**  
*Robin L. Pinto*
- 20** Stakeholder Sentiments about Adaptation Strategies for Historic Buildings at Cape Lookout National Seashore • **123**  
*Erin Seekamp*
- 21** Connecting People, Nature, and Culture through Metropolitan Conservation Alliances • **130**  
*Ted Trzyna*
- BISON CONSERVATION**
- 22** Breakthroughs in Bison Conservation Bring Recovery a Bit Closer • **136**  
*Peter Dratch*
- 23** Informing Bison Conservation Strategies Using Population Viability Analyses for Department of the Interior Bison Herds • **138**  
*Cynthia Hartway and Amanda Hardy*
- 24** Using Assisted Reproductive Technologies to Mitigate Disease and Preserve Genetic Variation in Bison • **140**  
*Jennifer Barfield*
- 25** American Icons in Metropolitan Grasslands: People, Place and Bison Recovery along Colorado’s Front Range • **143**  
*Rebecca Garvoille*
- 26** Transforming Department of Interior Bison from Livestock to Wildlife • **146**  
*Lee Jones and Peter Dratch*