

Contents

1 The Bioarchaeology of Climate Change and Violence: A Temporal and Cross-Cultural Approach	1
1.1 The Value of a Bioarchaeological Approach	1
1.2 Climate Change and Humans	3
1.2.1 Climate Change Research	3
1.2.2 Anthropogenic Climate Change	4
1.3 Climate Change and Violence	5
1.4 The Climate-Conflict Model	6
1.5 Ethics and Climate Change	7
1.6 Bioarchaeology: The Importance of Comparative and Temporal Studies	8
1.7 Summary	8
References.....	9
2 The Science of Climate Change	13
2.1 Assessing Climate Change: Difficulties and Limitation	13
2.2 Measuring Climate Change	14
2.2.1 Types of Data	14
2.2.2 Looking Beyond Climate to Understand the Environment	19
2.3 Summary	20
References.....	20
3 Culture and Resilience	23
3.1 Culture and Adaptation to Climate Change	23
3.2 The Human-Environment Interaction	23
3.3 Adaptation to a Changing Climate	24
3.3.1 Mitigating Against Climate Change	25
3.3.1.1 The Role of Subsistence	26
3.3.2 The Role of Migration	28
3.4 Summary	29
References.....	30

4 Climate Change, Social Control and Violence in the US Southwest 33

4.1 The Role of Climate Change in the US Southwest 33

4.2 Methodological Approach 34

4.2.1 Sacred Water: A Drought-Prone Southwest 35

4.2.2 Conflict and Collapse: Violence and Migration in the Southwest 36

4.3 Ancestral Pueblo 37

4.3.1 Kayenta of Black Mesa 37

4.3.2 Chaco of the San Juan Basin 41

4.3.3 Mesa Verde of Southern Colorado 44

4.4 Other Cultures in the Southwest 45

4.4.1 Mogollon 45

4.4.2 Sinagua 47

4.4.3 Navajo 48

4.5 Summary 51

References 52

5 Beyond the Southwest: Is There a Relationship Between Climate and Violence? 59

5.1 Climate Change and Violence Worldwide 59

5.2 Bioarchaeological Case Studies 59

5.2.1 Canary Islands 59

5.2.2 Atacama and Patagonia 60

5.2.3 Southern California 61

5.3 Historic Case Studies 63

5.3.1 Germany 63

5.3.2 China 63

5.4 Climate Change Without Violence 64

5.5 Summary 65

References 66

6 Conclusion: A Bioarchaeological Model of Climate Change and Violence 69

6.1 A Revised Model of Climate Change and Violence 69

6.2 Lessons from the Past for Policy Makers of the Future 70

References 71

Index 73



<http://www.springer.com/978-1-4614-9238-2>

Bioarchaeology of Climate Change and Violence

Ethical Considerations

Harrod, R.P.; Martin, D.L.

2014, XV, 75 p. 12 illus., Softcover

ISBN: 978-1-4614-9238-2