

“This third edition of *Anthropology and Climate Change* is an excellent assemblage of articles and case studies exploring the reorientations required for fully capturing the multiple and complexly intertwined challenges of climate change, the need to reconfigure through a process of world-making different ways (worlds) of envisioning how we relate to one another and to our environments, and finally, the problems and pitfalls that occur when global policy fails to recognize local capacities and vulnerabilities.”

**Anthony Oliver-Smith**, *Professor Emeritus of Anthropology, University of Florida*

In this third edition of *Anthropology and Climate Change*, Susan Crate and Mark Nuttall offer a collection of chapters that examine how anthropologists work on climate change issues with their collaborators, both in academic research and practicing contexts, and discuss new developments in contributions to policy and adaptation at different scales. Building on the first edition's pioneering focus on anthropology's burgeoning contribution to climate change research, policy, and action, as well as the second edition's focus on transformations and new directions for anthropological work on climate change, this new edition reveals the extent to which anthropologists' contributions are considered to be critical by climate scientists, policymakers, affected communities, and other rights-holders. Drawing on a range of ethnographic and policy issues, this book highlights the work of anthropologists in the full range of contexts – as scholars, educators, and practitioners from academic institutions to government bodies, international science agencies and foundations, working in interdisciplinary research teams and with community research partners.

The contributions to this new edition showcase important new academic research, as well as applied and practicing approaches. They emphasize human agency in the archaeological record, the rapid development in the last decade of community-based and community-driven research and disaster research; provide rich ethnographic insight into worldmaking practices, interventions, and collaborations; and discuss how, and in what ways, anthropologists work in policy areas and engage with regional and global assessments.

This new edition is essential for established scholars and for students in anthropology and a range of other disciplines, including environmental studies, as well as for practitioners who engage with anthropological studies of climate change in their work.

**Susan A. Crate** is an environmental and cognitive anthropologist and Professor Emeritus of George Mason University, USA.

**Mark Nuttall** is Professor and Henry Marshall Tory Chair of Anthropology at the University of Alberta, Canada. He is also Adjunct Professor at Ilisimatusarfik/University of Greenland and the Greenland Climate Research Centre in Nuuk, and Fellow of the Royal Society of Canada.

## ANTHROPOLOGY

 **Routledge**  
Taylor & Francis Group  
www.routledge.com

CERTIFIED  
**CARBON  
NEUTRAL**  
publication  
CarbonNeutral.com

an informa business

ISBN 978-1-03-215093-2



9 781032 150932

Routledge titles are available as eBook editions in a range of digital formats

<i>List of Illustrations</i>	viii
<i>List of Contributors</i>	xiii

Introduction: From Transformations to Worldmaking <i>Susan A. Crate and Mark Nuttall</i>	1
---	---

<b>PART I</b>	
<b>Reorientations</b>	<b>23</b>
1 The Arc of the Anthropocene: Deep-Time Perspectives From Environmental Archaeology <i>Arlene Miller Rosen</i>	25
2 Re-fielding Climate Change in Cultural Anthropology <i>Meredith Welch-Devine and Heather Lazrus</i>	47
3 A Picaresque Critique: The Anthropology of Disasters and Displacement in the Era of Global Warming and Pandemics <i>A.J. Faas</i>	62
4 Understanding Arctic Melt: Reflections on Collaborative Interdisciplinary Research <i>Mark Nuttall</i>	77
5 'Knowing' Climate: Engaging Vernacular Narratives of Change <i>Susan A. Crate</i>	93

- 6 “Don’t Look Down”: Green Technologies, Climate Change, and Mining  
*Jerry K. Jacka* 107
- 7 Getting It Right: What Needs to be Done to Ensure First Nations’ Participation and Benefit from Large-Scale Renewable Energy Developments on Country?  
*Katie Quail, Donna Green, and Ciaran O’Faircheallaigh* 117
- 8 Whither the Winds of Change? Worldmaking Winds and Seasonal Disruptions in the Northern Chilean Andes  
*Penelope Dransart and Marietta Ortega Perrier* 131
- 9 The Water Obliges: Climate Change and Worldmaking Practices in Peru  
*Astrid B. Stensrud* 144
- 10 Climate Action with a Lagniappe: Coastal Restoration, Flood Risk Reduction, Sacred Site Protection and Tribal Communities’ Resilience  
*Julie Maldonado, Kristina Peterson, R. Eugene Turner, Theresa Dardar, Shirell Parfait-Dardar, Rosina Philippe, Donald Dardar, Alessandra Jerolleman, Julie Torres, Rebecca Lovingood and Mira Olson* 157
- 11 Climate Change as Colonial Echo in the Canadian Arctic  
*Franz Krause* 170
- 12 On New Ground: Tracing Human–Muskox Reconfigurations in Greenland  
*Astrid Oberborbeck Andersen and Janne Flora* 181
- 13 The Disappearing Free Reindeer: Unexpected Consequences of Climate Change for Fennoscandian Reindeer Herding  
*Majken Paulsen, Grete K. Hovelsrud, and Camilla Risvoll* 195
- 14 Sakha and Alaas: Place Attachment and Cultural Identity in a Time of Climate Change  
*Susan A. Crate* 206
- 15 A Reflexive Approach to Climate Change Engagement with Sherpas from Khumbu and Pharak in Northeastern Nepal (Mount Everest Region)  
*Pasang Yangjee Sherpa and Ornella Puschiasis* 224

## Interventions

243

- 16 Why We Need to Pay Attention to Wealth and Inequality in Lowering Carbon Emissions 245  
*Beatriz Barros and Richard Wilk*
- 17 Decarbonization and Making the Energy Future in the Welsh Underlands 257  
*Mark Nuttall*
- 18 Representation and Luck: Reflections on Climate and Collaboration in Shishmaref, Alaska 273  
*Dennis Davis and Elizabeth Marino*
- 19 Agricultural Intensification in Northern Burkina Faso: Smallholder Adaptation to Climate Change 281  
*Colin Thor West and Carla Roncoli*
- 20 Anthropological Contributions to IPCC Assessment Work 294  
*Pamela McElwee*
- 21 Negotiating Science and Policy in International Climate Assessments 309  
*Jessica O'Reilly*
- 22 From "Lone Ranger" to Team Player: The Role of Anthropology in Training a New Generation of Climate Adaptation Professionals 320  
*Sarah Strauss and Courtney Kurlanska*
- 23 Climate Counter-Hegemony: Crafting an Anthropological Climate Politics Through Student-Faculty Collaborations in the Classroom and on the Streets 333  
*Brian J. Burke, Sydney Blume, and Michael Z. Weiss*
- 24 *Caiyugluku*: Pulling from Within to Meet the Challenges in a Rapidly Changing Arctic 353  
*Fred Phillip, Raychelle Aluaq Daniel, Jonella Ququngaq Larson, Anne Stevens Henshaw and Erin Dougherty Lynch*
- 25 Culture and Heritage in Climate Conversations: Reflections on Connecting Culture, Heritage, and Climate Change 365  
*William P. Megarry, Hana Morel, Sarah Forgeson, and Eduardo S. Brondizio*
- Epilogue 375  
*Susan A. Crate and Mark Nuttall*