



Call for Book Chapter CLIMATE CHANGE, EXTREME CLIMATE EVENTS, LOSS AND DAMAGE IN AFRICA

Background: Africa faces severe climate change impacts resulting from extreme climate events like droughts, floods and heatwaves, which have been threatening livelihoods, ecosystems, and various economic sectors. The compound effects can be linked to immediate losses and long-term damages, perpetuating poverty and inequality. There is a credible body of evidence on climate change impacts, from multiple lines of researches, that documented the impacts of extreme climate events on agriculture and other sectors in Africa. For example, climate change is imposing severe stresses on agriculture, water resources, health, energy, biodiversity, fisheries, infrastructure, tourism, human settlements, forestry, among others, leading to heightened risks for food security, health, economic stability and ecosystem sustainability across the continent. Thus, extreme climate events cause loss and damage and exacerbating vulnerabilities in Africa. Therefore, assessment of loss and damage is crucial for addressing these impacts, acknowledging the effects are unavoidable, requiring specific attention and support. In recent years, loss and damage resulting from climate extreme events has emerged as a critical points of climate change impacts in African continent. To combat extreme weather events and related loss and damage in Africa, a proactive approach and research priority in this regard are highly needed, involving investment in climate science, early warning systems, resilient infrastructure, and prioritizing climate risk assessments in development planning for all African countries.

Therefore, this book aims at highlighting empirical evidences on how African continent has been confronting extreme climate events with the focus on understanding and mitigating climate-induced Loss and Damage in Africa. The book discusses the impact of climate change on Africa, highlighting the economic and non-economic losses and damages. It emphasizes the disproportionate impact on African communities and thus calls for effective mitigation strategies and multidisciplinary methodologies. The book emphasizes the need for inter/intra-disciplinary and multidisciplinary methodology, which incorporates climate science, social sciences and policy studies. The main aim of this book is to enhance Africa's climate resilience by incorporating local knowledge and scientific research, highlighting the voices of affected communities. This book will have four major sections and each section will consist of different chapters. The overview of the sections are:

Section 1- Understanding Extreme Climate Events and their impacts on communities, water resources and biodiversity in Africa

This section aims at examining the trends and projections of extreme weather events and evaluates the impacts on African communities, focusing on their social, economic, and environmental aspects.

Key Points:

- Overview of climate trends and projections
- Case studies of the impacts on various communities in Africa
- Analysis of the social, economic, gender and inclusivity, and environmental dimensions of climate impacts
- Through an intersectionality lens, identify the impacts of climate change on vulnerable populations and key sectors affected

Section 2- Loss and Damage: Empirical Evidence and Case Studies, Conceptual Framework and Policy Responses

This section will evaluate the efficacy of risk reduction and management measures as linked to Loss and Damage in Africa, insurance mechanisms, and financial assistance programs in addressing the needs of African countries.

Key Points:

- Empirical Evidence and Case Studies of the loss and damage in Africa
- Overview of policy responses and mechanisms
- Evaluation of effectiveness of L&D measures and areas for improvement

Section 3- Building Climate Resilience and Adaptive Capacity in Africa

This section delves into strategies for enhancing climate resilience and adaptation in Africa, emphasizing the significance of gender transformative and inclusive adaptation, mitigation, and risk management.

Key Points:

- Strategies for adaptation, mitigation, and risk management
- Innovative and successful initiatives in different economic sectors
- Potentials for scaling and replication

Section 4- Towards a Just and Equitable Climate Future

This section concludes by highlighting key plans for enhanced international cooperation, technology transfer and financial support to aid Africa's transition to a low-carbon and climate-resilient future.

Key Points:

- Assess gender and social inclusion issues, including how women, Indigenous groups, and marginalized communities can be empowered in a low-carbon economy
- International cooperation for climate justice and the role of global partnerships and multilateral agreements (e.g., Paris Agreement, COP outcomes) in supporting Africa's transition to a low-carbon economy
- Assess the role of emerging technologies in fostering climate resilience, especially in areas like renewable energy, sustainable agriculture, water management and biodiversity conservation
- Examine innovative financial solutions, such as debt-for-nature swaps, carbon markets and green bonds, which could enhance Africa's climate response.
- Emphasis on justice and equity in climate action
- Call to action for international cooperation and support

The book chapter contributions will be peer-reviewed by experts from across the globe - Africa, Asia, Australia, Europe, UK, South and North Americas, among others. The book is anticipated to be published in book Series published by SPRINGER NATURE

Submission Link:

<https://forms.gle/Voa52qin71CKLIDHA>

BENEFITS OF THE AUTHORS OR CONTRIBUTORS

The edited book will be double-blind peer-reviewed and published by **Springer International Publishing**, a part of **Springer Nature**

- a) **No Publication Fees**-There will be no fee required for publication.
- b) **Complimentary Copy**- Each corresponding author will receive one complimentary e-copy of the book at no cost.
- c) **Global Reach and Indexing**- The book will have worldwide distribution through the Springer website. Each chapter will be indexed in **Scopus**, the **Norwegian Register for Scientific Journals and Series**, and **SCImago**.

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Chapter format:

1. Title:
 2. Author(s) Name & Current Affiliation with email and Orcid ID
 3. Abstract (200 words)
 4. Keywords (5-6 words)
 5. Introduction
 6. Rationale of the Study (Optional)
 7. Materials and Methods
 8. Results and Discussion
 9. Challenges/Limitations of the Study (Optional)
 10. Recommendations
 11. Conclusions
 12. Acknowledgments (If any)
 13. References (Springer Format)
- Each article may be about 20-35 pages with roughly 7000-9000 words.

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