

## Integration of Indigenous knowledge in addressing climate change

Tarit Kumar Basu<sup>1</sup> & Mwangi McDonald<sup>2</sup>

<sup>1</sup>Institute of Forestry and Environmental Sciences, University of Chittagong, Bangladesh;

<sup>2</sup>School of Environment, Natural Resources and Geography, Bangor University, UK.

E-mails: tarit@ifesca.ac.bd; m.mcdonald@bangor.ac.uk

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Household survey, focus group discussions, participatory rural appraisal (PRA) tools, viz. trend analyses for temperature, rainfall intensity and farming, pair wise ranking and matrix ranking to get people's perceptions and experiences on climate change in the Pukhara Khola watershed in the Middle-Hills of Nepal. Moreover, local meteorological data was analyzed to see the trend of changes in rainfall and temperature. Analysis of both indigenous farmers' perceptions and meteorological data showed an increase of temperature with longer summers and warmer and shorter winter during the period of 1982 - 2007. There was a decreasing trend of rainfall over the years in an erratic and unpredictable manner. Water shortage, disease and pest infestation in crops and soil fertility loss are seen as major climate risks and hazards. Marginal and small groups of farmers are more vulnerable with less ability to cope with climate hazards due to lack of familiarity with these conditions. In order to adapt to these adverse conditions (trend of increased temperature and decreased rainfall), people's increasing tendency to apply chemical fertilizer instead of manure and practice less water demanded vegetables farming while decreasing trend of cereal farming was apparent in trend analysis of farming. The conversion of *Abarbar* (grass production for roofing thatch and livestock feed) to barren wasteland and grass shortage caused the reduction in production of large livestock. The reduction in number of large livestock (cattle) due to fodder shortage results in less available manure and increased need for fertilizing and pesticide applications against disease, pest attacks and invasive species in crops induced loss of soil fertility for long term. The presence of mosquitoes was seen all year round except it was only found during summer in the past.

**Keywords:** Climate risk, Farmers, Livelihood, Soil fertility, Vulnerable, Water shortage, Middle-hills

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Warming in the Himalayas has been much higher than the global average of 0.74°C over the last 100 years<sup>1</sup>. Recent studies showed that Nepal's temperature is rising at rate of about 0.41°C per decade<sup>1</sup> and the mean annual temperature is expected to increase by 2.9°C by the middle of the 21<sup>st</sup> century<sup>2</sup>. As in other regions of the world, climatic and ecological changes caused by global warming have resulted in an array of negative consequences for people's health, economy and livelihoods in Nepal<sup>3</sup>. Agriculture – the mainstay of rural food and economy that accounts for about 96% of the total water use in the country – suffers from erratic weather patterns such as heat stress, longer dry seasons and unpredictable rainfall, since 64% of the cultivated area fully depends on monsoon rainfall<sup>4</sup>. Changing climate results in heavy showers which induce flooding, longer wetter, land slides, and invasion of weeds on farmland. During the dry

season, increased evaporation will lead to water scarcity<sup>5</sup>. With reference to climate change at the local scale, therefore, studies conducted in Nepal<sup>6,7</sup> are of paramount importance. Because, climate change is found to be relatively new challenge of global scale however, at a global scale climate change may have negligible impact rather than local and regional scale. Impact may be severe and substantial at local scale<sup>7</sup>.

Among five physiographic zones of Nepal, the Middle Mountains (200–3000 masl) zone, also known as the "Middle-Hills", comprises the central belt, which can be characterized as a network of ridges and valleys with less than 5% flat area. It occupies about 30% of Nepal's total land area and hosts about 44% of its human population<sup>8</sup>. About 32% of the country's forests occur in the Middle-Hills. The complementary relationships of crop, livestock and tree components fulfill the livelihood needs of resource-poor farmers and maintain ecological stability is paramount in the

\*Corresponding author

# Integration Of Indigenous Knowledge In Addressing Climate

**Intergovernmental Authority on  
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## **Integration Of Indigenous Knowledge In Addressing Climate:**

**Indigenous knowledge for climate change assessment and adaptation** Nakashima, Douglas, Krupnik, Igor, Rubis, Jennifer, 2018-12-31 This unique transdisciplinary publication is the result of collaboration between UNESCO's Local and Indigenous Knowledge Systems LINKS programme the United Nations University's Traditional Knowledge Initiative the IPCC and other organisations

**Adaptation in a Changing World: Navigating Climate Transitions** Jenifer Wyatt, 2025-03-19 Discover innovative and practical solutions to combat the complex challenges of climate change in this thought provoking book Examining the diverse impacts brought upon by shifting weather patterns rising sea levels and extreme natural disasters it reveals comprehensive strategies for adapting and thriving in an evolving environment Delve into chapters dedicated to harnessing renewable energy sources implementing resilient infrastructures safeguarding biodiversity and fostering sustainable agricultural practices Step into a world where humans and nature coexist harmoniously as communities adapt and find resilience in the face of climate change

*The Routledge Handbook on Cultural Heritage and Climate Justice* Mesut Dinler, William Megarry, 2026-03-31 This volume contains contributions from over 60 authors from 20 countries exploring the importance of climate justice and equity in climate action While focused on cultural heritage its relevance extends into other fields including policy just transitions development studies and climate adaptation Its central message is that climate action and climate justice are inseparable in our response to the climate crisis Key cross cutting themes explored in 25 contributions and ten information boxes include economic and non economic loss and damage with a particular focus on intangible cultural heritage the importance of plural ways of knowing and bridging different epistemologies the intersectionality of risk loss and action with a particular focus on the historical and ongoing impacts of colonialism and other forms of historical injustice and the importance of community centred approaches to climate action including climate literacy and education This book is targeted widely to those both within and outside of the heritage sector It addresses themes of importance to those working in heritage practice and research policy development and climate adaptation and mitigation It will also be of relevance to those working with communities impacted by climate change

**Advances in Hurricane Risk in a Changing Climate** Jennifer Collins, James Done, Yi-Jie Zhu, Paul Wilson, 2024-07-15 Tropical cyclones including hurricanes are becoming more destructive Rising seas are resulting in greater storm surge inundation More moisture laden warmer air is leading to heavier rains There is also mounting evidence for more powerful winds and a greater incidence of the strongest storms Do we fully understand these changes and what will these changes mean for society Arising from the 2024 Symposium on Hurricane Risk in a Changing Climate this book contains new research on hurricane behavior our vulnerability and how we communicate the risk This book is essential reading to understand the future of tropical cyclone risk and what it means for society

**African Perspectives on Religion and Climate Change** Ezra Chitando, Ernst M. Conradie, Susan M. Kilonzo, 2022-05-12 This book interrogates the contributions that religious traditions have made to

climate change discussions within Africa whether positive or negative Drawing on a range of African contexts and religious traditions the book provides concrete suggestions on how individuals and communities of faith must act in order to address the challenge of climate change Despite the fact that Africa has contributed relatively little to historic carbon emissions the continent will be affected disproportionately by the increasing impact of anthropogenic climate change Contributors to this book provide a range of rich case studies to investigate how religious traditions such as Christianity Hinduism Islam and indigenous faiths influence the worldviews and actions of their adherents The chapters also interrogate how the moral authority and leadership provided by religion can be used to respond and adapt to the challenges posed by climate change Topics covered include risk reduction and resilience youth movements indigenous knowledge systems environmental degradation gender perspectives ecological theories and climate change financing This book will be of interest to scholars in diverse fields including religious studies sociology political science climate change and environmental humanities It may also benefit practitioners involved in solving community challenges related to climate change The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

*Community Climate Justice and Sustainable Development* Roy, Parimal Kumar, Hamidi, Mashitah Binti, Wahab, Haris Abd, 2025-03-26 Climate justice is a crucial issue particularly for Indigenous communities that are disproportionately affected by environmental changes despite contributing the least to global emissions Achieving sustainability and social justice requires an inclusive approach that considers diverse policies cultural perspectives and methodological interventions As globalization deepens interconnectivity addressing climate justice through equitable policies climate finance and community driven solutions becomes essential for ensuring a just and sustainable future Examining both policy gaps and actionable solutions can help create frameworks that protect vulnerable populations while advancing global sustainability goals *Community Climate Justice and Sustainable Development* explores the intersection of climate justice Indigenous rights and sustainable development highlighting the policies and actions needed to achieve social and environmental equity By analyzing case studies policy frameworks and financial mechanisms it provides a comprehensive discussion on bridging the gap between climate commitments and real world impact Covering topics such as climate migrants tribal rights and indigenous knowledge this book is an excellent resource for social justice advocates environmentalists policymakers professionals researcher scholars academicians and more

*Climate-Smart Livestock Production: Strategies for Enhanced Sustainability and Resilience* Oyegunle Emmanuel Oke, Victoria Anthony Uyanga, Monsuru Oladimeji Abioja, Fisayo Oretomiloye, 2025-09-08 Climate smart livestock production is essential for enhancing animal welfare ensuring food security and bolstering resilience against climate change as demand for animal sourced foods grows This field focuses on identifying sustainable strategies at all production scales from expansive commercial farms to smaller operations We seek original research and review articles that detail practices and technologies

aimed at reducing greenhouse gas emissions minimizing water pollution optimizing land use and improving animal welfare in livestock systems The sector faces significant challenges from climate change including heat stress water scarcity and heightened disease risks Adopting climate smart practices such as increasing feed efficiency streamlining manure management and utilizing renewable energy are pivotal in creating more sustainable livestock systems These efforts must integrate animal welfare to ensure the sustainability and resilience of these enterprises over the long term

**Climate Change 2022 - Impacts, Adaptation and Vulnerability** Intergovernmental Panel on Climate Change (IPCC), 2023-06-22 The Working Group II contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the scientific literature relevant to climate change impacts adaptation and vulnerability The report recognizes the interactions of climate ecosystems and biodiversity and human societies and integrates across the natural ecological social and economic sciences It emphasizes how efforts in adaptation and in reducing greenhouse gas emissions can come together in a process called climate resilient development which enables a liveable future for biodiversity and humankind The IPCC is the leading body for assessing climate change science IPCC reports are produced in comprehensive objective and transparent ways ensuring they reflect the full range of views in the scientific literature Novel elements include focused topical assessments and an atlas presenting observed climate change impacts and future risks from global to regional scales Available as Open Access on Cambridge Core

**Health Professions Education at a Time of Triple Planetary Crises** Lynn Valerie Monrouxe, Jacqueline G. Bloomfield, Michelle McLean, Komal Atta, Fathima Rizka Ihsan, 2025-12-05 While climate change has been described as the greatest threat to health in the 21st century with the potential to reverse 50 years of health gains we are currently facing a triple planetary crisis In addition to a changing climate rising land and ocean temperatures are changing weather patterns resulting in wildfires floods and melting polar regions the latter leading to rising sea levels Through our largely unsustainable activities pollution in all of its forms air heavy metals microplastics forever chemicals etc is impacting not only humans but also other planetary beings As a result of climate change and pollution our declining ecosystem health is leading to extensive biodiversity loss In 2023 we now find ourselves living beyond the safe operating space for six of nine planetary boundaries Planetary justice describes the inequitable intergenerational impacts of these planetary crises not just for humans but for all of Earth's inhabitants Considering these pressing health and ecological issues it is imperative that health professions education prepares graduates to practice sustainable healthcare do no harm and to respond to emergencies such as smoke inhalation burns and eco anxiety Health professions education therefore needs to prepare graduates to be planetary stewards and eco ethical leaders to ensure more equitable access to our planet's limited resources for current and future generations This will require more sustainable lifestyles and professional practice and in many instances it may involve ecosystem restoration The 2030 United Nations Sustainable Development Goals Global Goals provide considerable guidance in terms of sustainable development for

current and future generations while Indigenous ways of knowing doing and being which have frequently been marginalised and dismissed offer strength based approaches to living in harmony and caring for ecosystems and all of the planet s inhabitants This Research Topic is seeking innovative contributions in health professions education that prepare graduates to not only work on a changing planet but to also take action as planetary citizens planetary stewards and eco ethical leaders Submissions should provide sufficient detail and where possible measurable outcomes such that others may be able to adapt the program or intervention at their own institutions

*Building Knowledge for Climate Resilience in Nepal* Dinesh Raj Bhuju,2016 Contributed briefs grown under the aegis of Climate Change Research Grant Programme one of the five components of Nepal s Pilot Programme for Climate Resilience moderated by NAST in Nepal

**Climate Change 2007 - Impacts, Adaptation and Vulnerability** Intergovernmental Panel on Climate Change. Working Group II.,2007 The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provide the most comprehensive and balanced assessment of climate change available This IPCC Working Group II volume provides a completely up to date scientific assessment of the impacts of climate change the vulnerability of natural and human environments and the potential for response through adaptation Written by the world s leading experts the IPCC volumes will again prove to be invaluable for researchers students and policymakers and will form the standard reference works for policy decisions for government and industry worldwide

**Climate Change 2007: Impacts, adaptation and vulnerability** ,2007 *Climate Action* ,2007 **National Climate Change Response Strategy** ,2010 *Tribal Life and Forest Resource Management* Dilip Sarkar,Surojit Sen Gupta,2017 29 contributions with special reference to North East India

**Regional Strategic Action Plan on Integrated Water Resources Development and Management, Phase IV.** ,2016 *Bulletin* ,2009 Third Comprehensive Review of the Implementation of the Framework for Capacity-building in Developing Countries United Nations Framework Convention on Climate Change (Organization),2016

**Best Practices and Available Tools for the Use of Indigenous and Traditional Knowledge and Practices for Adaptation, and the Application of Gender-sensitive Approaches and Tools for Understanding and Assessing Impacts, Vulnerability and Adaptation to Climate Change** United Nations Framework Convention on Climate Change (Organization),2013

**The DAC Guidelines** Organisation for Economic Co-operation and Development,2002 This publication aims to clarify the links between the Rio Conventions on climate change biodiversity and desertification and sustainable development issues It seeks to provide insights as to how development co operation agencies can help developing countries respond to global environmental threats and address poverty reduction concerns It contains the policy statement endorsed at the OECD Development Assistance Committee DAC meeting in May 2002 an executive summary and an indepth analysis of key policy issues and priority areas for action and a number of annexes summarising the main concepts and terms involved Whilst the guidelines focus on the Rio Conventions many of the findings apply equally to other global or regional environmental issues

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