
Migration Definition Environmental Science

Avian Migration
 People on the Move in a Changing Climate
 Exceptional People
 The Concept of Climate Migration
 Disentangling Migration and Climate Change
 The Avian Migrant
 Biological Science
 The Oxford Handbook of Migration Crises
 Animal Migration
 Outlook on Migration, Environment and Climate Change
 Environment, Climate Change and Migration in South Asia
 Climate Change, Forced Migration, and International Law
 Migration and Climate Change
 Co-creation in Migration Studies
 Environment, Forced Migration and Social Vulnerability
 Migration
 Specters of Belonging
 Environmental Migration in International Law
 International Encyclopedia of Human Geography
 Routledge Handbook of Environmental Displacement and Migration
 Environmental Change and its Implications for Population Migration
 Understanding the Changing Planet
 Indigenous Routes
 Governing Climate Induced Migration and Displacement
 Environmental Justice for Climate Refugees
 Climate, Environmental Hazards and Migration in Bangladesh
 Migration, Environment and Climate Change
 Migration, Development and Environment
 An Introduction to Fish Migration
 Zugunruhe
 Environmental Science
 Migration and Environmental Change in Morocco
 Organizational Perspectives on Environmental Migration
 Environmental Migration and Social Inequality
 Refugees Worldwide [4 volumes]
 Plant Migration
 Environmental Science
 Migration and Climate Change
 Human Displacement from a Global South Perspective

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Migration, broadly defined as directional movement to take advantage of spatially distributed resources, is a dramatic behaviour and an important component of many life histories that can contribute to the fundamental structuring of ecosystems. In recent years, our understanding of migration has advanced radically with respect to both new data and conceptual understanding. It is now almost twenty years since publication of the first edition, and an authoritative and up-to-date sequel that provides a taxonomically comprehensive overview of the latest research is therefore timely. The emphasis throughout this advanced textbook is on the definition and description of migratory behaviour, its ecological outcomes for individuals, populations, and communities, and how these outcomes lead to natural selection acting on the behaviour to cause its evolution. It takes a truly integrative approach, showing how comparisons across a diversity of organisms and biological disciplines can illuminate migratory life cycles, their evolution, and the relation

of migration to other movements. *Migration: The Biology of Life on the Move* focuses on migration as a behavioural phenomenon with important ecological consequences for organisms as diverse as aphids, butterflies, birds and whales. It is suitable for senior undergraduate and graduate level students taking courses in behaviour, spatial ecology, 'movement ecology', and conservation. It will also be of interest and use to a broader audience of professional ecologists and behaviourists seeking an authoritative overview of this rapidly expanding field.

Avian Migration CRC Press

This book focuses on inclusion and governance agenda on the issue of migration within a framework of South-South cooperation. Increasing migration waves present an extraordinary and complex challenge to the international community. In the existing literature, migration processes have been described mostly from Western perspectives, and although these perspectives are analytically relevant, they lack the advantage of a broader interpretation. Taking a Global South approach, this volume gives voices to authors from several Latin American and Latin European universities to offer a more dynamic discussion of the challenges of migration in the twenty-first century. The authors take a broad perspective of global

migration, with a focus on case studies from the Global South that highlight Latin American and North African experiences in particular.

People on the Move in a Changing Climate Environment, Forced Migration and Social Vulnerability

The apocalyptic visions of climate change that are projected in the media often involve extreme weather events, disasters and mass migration of poor people. This book takes a critical look at this notion, drawing on research in Bangladesh, a country located at the heart of debates on climate change and migration. This book argues that rather than leading to dramatic events, climatic and environmental impacts often cause incremental changes in people's habitats and livelihoods, making them migrate in search of better places and income. With or without climate change, climatic and environmental factors can impoverish people, and drive displacement and migration, especially in the global South. These influences, including disasters, need not necessarily make people move, but instead sometimes trap the poorest and the most vulnerable people in their places exposed to hazards or make them migrate to even riskier places, such as crowded and flood-prone urban slums. This book argues that restrictions placed on people's mobility options could increase their vulnerability and favours proactive migration policies. This timely contribution explains the climate-hazard-migration nexus in an accessible, engaging language for students of geography, development studies, politics and environmental studies, as well as humanitarian and development practitioners and policymakers.

Exceptional People United Nations

This book is one of the outputs of the conference on 'Environmental Change, Forced Migration, and Social Vulnerability' (EFMSV) held in Bonn in October 2008. Migration is one of the oldest adaptation measures of humanity. Indeed, without migration the multitude of civilizations and interactions between them – peaceful and otherwise – would be hard to imagine. The United Nations (UN)-led global dialogue on migration is a clear sign that governments and the specialized UN agencies and bodies have recognized the need to view, govern, manage, and facilitate migration; to mitigate its negative effects; and to capitalize on the positive ones. It is a common expectation among experts that environmentally induced migration will further increase in the decades to come. Hence, next to the political, economic, ethnic, social, financial, humanitarian, and security aspects of migration, the environmental component should urgently be considered in the ongoing international dialogue on migration. This need is also a challenge. Without appropriate scientific knowledge, assessment, definitions, and classifications, the intergovernmental frameworks would not be able to deal with these complex phenomena. The Five-Pronged-Approach as formulated by the United Nations University (UNU) may serve as a framework to identify the additional dimensions of this challenge next to – and actually simultaneously with – the scientific one.

The Concept of Climate Migration Edward Elgar Publishing
Environment, Forced Migration and Social Vulnerability Springer
Science & Business Media

Disentangling Migration and Climate Change Springer
Science & Business Media

This is a key study into whether 'climate change refugees' are protected by international law. It examines the reasons why people do or do not move; how far climate change is a trigger for movement; and whether traditional international responses, such as creating new treaties and new institutions, are appropriate solutions in this context.

The Avian Migrant Springer

From the oceans to continental heartlands, human activities have altered the physical characteristics of Earth's surface. With Earth's population projected to peak at 8 to 12 billion people by 2050 and the additional stress of climate change, it is more important than ever to understand how and where these changes are happening. Innovation in the geographical sciences has the potential to advance knowledge of place-based environmental change, sustainability, and the impacts of a rapidly changing economy and society. Understanding the Changing Planet outlines eleven strategic directions to focus research and leverage new technologies to harness the potential that the geographical sciences offer.

Biological Science Columbia University Press

This open access book studies the migration aspirations and trajectories of people living in two regions in Morocco that are highly affected by environmental change or emigration, namely Tangier and Tinghir, as well as the migration trajectories of immigrants coming from these regions currently living in Belgium. This book departs from the development of a new theoretical framework on the relationship between environmental changes and migration that can be applied to the Moroccan case. Qualitative research conducted in both countries demonstrate how the interplay between migration and environmental factors is not as straightforward as it seems, due to its wider social, political, economic, demographic and environmental context. Findings show how existing cultures of migration, remittances, views on nature and discourses on climate change create distinct abilities, capacities and aspirations to migrate due to environmental changes. The results illustrate how migration and environmental factors evolve gradually and mutually influence each other. In doing so, this book offers new insights in the ways migration can be seen as an adaptation strategy to deal with environmental change in Morocco.

The Oxford Handbook of Migration Crises Oxford University Press

This book explores who climate refugees are and how environmental justice might be used to overcome legal obstacles preventing them from being recognized at an international level. Francesca Rosignoli begins by exploring the conceptual and complex issues that surround the very existence of climate refugees and investigates the magnitude of the phenomenon in its current and future estimates. Reframing the debate using an environment justice perspective, she examines who has the responsibility of assisting climate refugees (state vs non-state actors), the various legal solutions available and the political scenarios that should be advanced in order to govern this issue in the long term. Overall, Environmental Justice for Climate Refugees presents a critical interrogation of how this specific strand of forced migration is currently categorized by existing legal, ethical and political definitions, and highlights the importance of applying a justice perspective to this issue. Exploring the phenomenon of climate refugees through a multi-disciplinary lens, this book will be of great interest to students and scholars of environmental migration and displacement, environmental politics and governance, and refugee studies.

Animal Migration Oxford University Press

This publication brings together in one easy-to-access reference document the knowledge accrued by the International Organization for Migration (IOM) and presents IOM's role, understanding and approach to environmental migration. This reference publication builds on IOM's expertise on the topic at the policy, research, international migration law, advocacy and operational levels

Outlook on Migration, Environment and Climate Change Prentice Hall Professional

The last twenty years have seen a rapid increase in scholarly

activity and publications dedicated to environmental migration and displacement, and the field has now reached a point in terms of profile, complexity, and sheer volume of reporting that a general review and assessment of existing knowledge and future research priorities is warranted. So far, such a product does not exist. The Routledge Handbook of Environmental Displacement and Migration provides a state-of-the-science review of research on how environmental variability and change influence current and future global migration patterns and, in some instances, trigger large-scale population displacements. Drawing together contributions from leading researchers in the field, this compendium will become a go-to guide for established and newly interested scholars, for government and policymaking entities, and for students and their instructors. It explains theoretical, conceptual, and empirical developments that have been made in recent years; describes their origins and connections to broader topics including migration research, development studies, and international public policy and law; and highlights emerging areas where new and/or additional research and reflection are warranted. The structure and the nature of the book allow the reader to quickly find a concise review relevant to conducting research or developing policy on particular topics, and to obtain a broad, reliable survey of what is presently known about the subject.

Environment, Climate Change and Migration in South Asia
Bloomsbury Publishing USA

This book addresses environmental and climate change induced migration from the vantage point of migration studies, offering a broad spectrum of approaches for considering the environment/climate/migration nexus. Research on the subject is still frequently narrowed down to climate change vulnerability and the environmental push factor. The book establishes the interconnections between societal and environmental vulnerability, and migration and capability, allowing appreciation of migration in the frame of climate as a case of spatial and social mobility, that is, as a strategy of persons and groups to deal with a grossly unequal distribution of life chances across the world. In their introduction, the editors fan out the current debate and state the need to transcend predominantly policy-oriented approaches to migration. The first section of the volume focuses on “Methodologies and Methods” and presents very distinct approaches to think climate induced migration. Subsequent chapters explore the sensitivity of existing migration flows to climate change in Ghana and Bangladesh, the complex relationship between migration, demographic change and coping capacities in Canada, methodological challenges of a household survey on the significance of migration and remittances for adaptation in the Hindu Kush region and an econometric study of the aftermath of the 1998 floods in Bangladesh. The second part, “Areas of Concern: Politics and Human Rights”, deepens the analysis of discourses as well as of the implications of proposed and implemented policies. Contributors discuss such topics as environmental migration as a multi-causal problem, climate migration as a consequence in an alarmist discourse and climate migration as a solution. A study of an integrated relocation program in Papua New Guinea is followed by chapters on the promise and the flaws of planned relocation policy, global policy on protection of environmental migrants including both internally displaced peoples and those who cross international borders. A concluding chapter places human agency at centre stage and explores the interplay between human rights, capability and migration.

Climate Change, Forced Migration, and International Law National Academies Press

As the United States hardens its border with Mexico, how do

migrants make transnational claims of citizenship in both nation-states? By enacting citizenship in both countries, Mexican migrants are challenging the meaning of membership and belonging from the margins of both citizenship regimes. With their incessant border-shattering political practices, Mexican migrants have become the embodiment of transnational citizenship on both sides of the divide. Drawing on his experiences leading citizenship classes for Mexican migrants and working with cross-border activists, Adrián Félix examines the political lives (and deaths) of Mexican migrants in *Specters of Belonging*. Tracing transnationalism across the different stages of the migrant political life cycle - beginning with the so-called political baptism of naturalization and ending with the practice by which migrant bodies are repatriated to Mexico for burial after death - Félix reveals the varied ways in which Mexican transnational subjects practice citizenship in the United States as well as Mexico. As such, Félix unearths how Mexican migrants' specters of belonging perennially haunt the political projects of nationalism, citizenship, and democracy on both sides of the border.

Migration and Climate Change Springer Nature

Utilizing international perspectives, this unprecedented collection of essays from leading authorities on refugee studies spotlights the realities and challenges of the global refugee population. With increasing changes in the socio-political climate of the world as well as with the rising numbers of natural disasters, people of all ethnicities and nationalities are frequently forced from their homes and their homelands. While there is a substantial body of work that addresses refugee policies, post-traumatic stress disorder, and other specific issues, there have been few attempts to understand refugee health or comprehend overall refugee adaptation—until now. This is the first work to address refugee issues worldwide, addressing the psychological, health, human rights, political, public policy, law, economic, social, and personal aspects of this universal problem. *Refugees Worldwide* also includes examples of first-person refugee stories from around the world—eye-opening information not available in any other work. Drawing on the expertise of myriad international researchers, theoreticians, and practitioners from representative nations around the world, this four-volume set effectively speaks to a number of refugee issues from a truly global perspective.

Co-creation in Migration Studies Springer Science & Business Media

Andrea Simonelli provides the first in-depth evaluation of climate displacement in the field of political science, specifically global governance. She evaluates four intergovernmental organizations (UNHCR, IOM, OCHA and the UNFCCC), and the structural and political constraints regarding their potential expansion to govern this new issue area.

Environment, Forced Migration and Social Vulnerability Cambridge Scholars Publishing

The purpose of migration, regardless of the distance involved, is to exploit two or more environments suitable for survival or reproduction over time, usually on a seasonal basis. Yet individual organisms can practice the phenomenon differently, and birds deploy unique patterns of movement over particular segments of time. Incorporating the latest research on bird migration, this concise, critical assessment offers contemporary readers a firm grasp of what defines an avian migrant, how the organism came to be, what is known about its behavior, and how we can resolve its enduring mysteries. John H. Rappole's sophisticated survey of field data clarifies key ecological, biological, physiological, navigational, and evolutionary concerns. He begins with the very first migrants, who traded a home environment of greater stability for one of greater seasonality,

and uses the structure of the annual cycle to examine the difference between migratory birds and their resident counterparts. He ultimately connects these differences to evolutionary milestones that have shaped a migrant lifestyle through natural selection. Rather than catalogue and describe various aspects of bird migration, Rappole considers how the avian migrant fits within a larger ecological frame, enabling a richer understanding of the phenomenon and its critical role in sustaining a hospitable and productive environment. Rappole concludes with a focus on population biology and conservation across time periods, considering the link between bird migration and the spread of disease among birds and humans, and the effects of global warming on migrant breeding ranges, reaction norms, and macroecology.

Migration Routledge

Gradual and sudden environmental changes are resulting in substantial human movement and displacement, and the scale of such flows, both internal and cross-border, is expected to rise with unprecedented impacts on lives and livelihoods. Despite the potential challenge, there has been a lack of strategic thinking about this policy area partly due to a lack of data and empirical research on this topic. Adequately planning for and managing environmentally induced migration will be critical for human security. The papers in this volume were first presented at the Research Workshop on Migration and the Environment: Developing a Global Research Agenda held in Munich, Germany in April 2008. One of the key objectives on the Munich workshop was to address the need for more sound empirical research and identify priority areas of research for policy makers in the field of migration and the environment.

Specters of Belonging Taylor & Francis

The objective of *The Oxford Handbook of Migration Crises* is to deconstruct, question, and redefine through a critical lens what is commonly understood as "migration crises." The volume covers a wide range of historical, economic, social, political, and environmental conditions that generate migration crises around the globe. At the same time, it illuminates how the media and public officials play a major role in framing migratory flows as crises. The volume brings together an exceptional group of scholars from around the world to critically examine migration crises and to revisit the notion of crisis through the context in which permanent and non-permanent migration flows occur. *The Oxford Handbook of Migration Crises* offers an understanding of individuals in societies, socio-economic structures, and group processes. Focusing on migrants' departures and arrivals in all continents, this comprehensive handbook explores the social dynamics of migration crises, with an emphasis on factors that propel these flows as well as the actors that play a role in classifying them and in addressing them. The volume is

organized into nine sections. The first section provides a historical overview of the link between migration and crises. The second looks at how migration crises are constructed, while the third section contextualizes the causes and effects of protracted conflicts in producing crises. The fourth focuses on the role of climate and the environment in generating migration crises, while the fifth section examines these migratory flows in migration corridors and transit countries. The sixth section looks at policy responses to migratory flows. The last three sections look at the role media and visual culture, gender, and immigrant incorporation play in migration crises.

Environmental Migration in International Law Oxford University Press, USA

P. Berthold and E. Gwinnd Bird migration is an intriguing aspect of the living world - so much so that it has been investigated for as long, and as thoroughly, as almost any other natural phenomenon. Aristotle, who can count as the founder of scientific ornithology, paid very close attention to the migrations of the birds he observed, but it was not until the reign of Friedrich II, in the first half of the 13th century, that reliable data began to be obtained. From then on, the data base grew rapidly. Systematic studies of bird migration were introduced when the Vogelwarte Rossitten was founded, as the first ornithological biological observation station in the world (see first chapter "In Memory of Vogelwarte Rossitten"). This area later received enormous impetus when experimental research on the subject was begun: the large-scale bird-ringing experiment initiated in Rossitten in 1903 by Johannes Thienemann (who was inspired by the pioneering studies of C. C. M. Mortensen), the experiments on photoperiodicity carried out by William Rowan in the 1920s in Canada and retention and release experiments performed by Thienemann in the 1930s in Rossitten, the first experimental study on the orientation of migratory birds. After the Second World War, migration research, while continuing in the previous areas, also expanded into new directions such as radar ornithology, ecophysiology and hormonal control mechanisms, studies of evolution, genetics, telemetry and others.

International Encyclopedia of Human Geography Routledge

As migration has not commonly been considered as part of the indigenous experience, the prevalent view of indigenous communities tends to portray them as static groups, deeply rooted in their territories and customs. Increasingly, however, indigenous peoples are leaving their long-held territories as part of the phenomenon of global migration beyond the customary seasonal and cultural movements of particular groups. Diverse examples of indigenous peoples' migration, its distinctive features and commonalities are highlighted throughout this report, and show that more research and data on this topic are necessary to better inform policies on migration and other phenomena that have an impact on indigenous people's lives.

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