

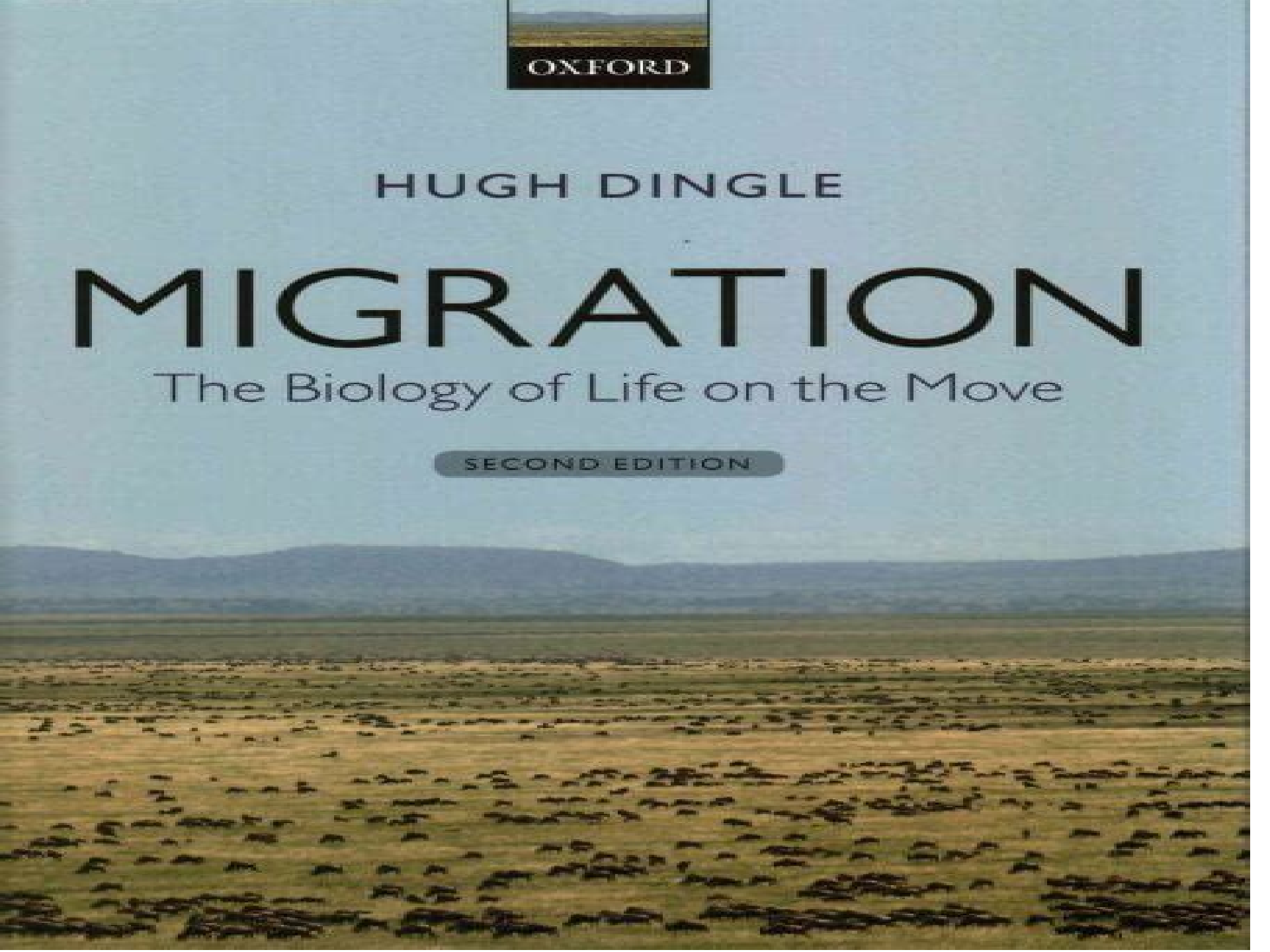


HUGH DINGLE

MIGRATION

The Biology of Life on the Move

SECOND EDITION



Migration The Biology Of Life On The Move

Joerg Rieger



Migration The Biology Of Life On The Move:

Migration : The Biology of Life on the Move Davis Hugh Dingle Professor in the Department of Entomology and Center for Population Biology University of California, 1996-01-18 Migration is one of the most fascinating and dramatic of all animal behaviors. Historically, however, the study of migration has been fragmented with ornithologists, entomologists, and marine biologists paying little attention to work outside their own fields. This treatment of the subject shows how comparisons across taxa can in fact illuminate migratory life cycles and the relation of migration to other movements. The book thus takes an integrated ecological perspective focusing on migration as a biological phenomenon. The work is divided into four parts, each with a brief introductory section. Part I defines migration, gives examples, and places migration in the spectrum of movement behaviors, concluding with a chapter on methods for its study. Part II focuses on proximate mechanisms, including physiology and morphology and the constraints associated with them, the interactions between migration and wind and current patterns, and the various orientation and navigation mechanisms by which migrants find their way about. Part III, on the evolution of migratory life histories, addresses the evolutionary and ecological basis for migration and the roles of migration not only in the lives of organisms but also in the ecological communities in which they live. Part IV is devoted to a brief consideration of migration and its relation to pest management and conservation. As a major contribution to a vital subject, this work will be valued by all researchers and students in the field of animal behavior, ecology, and zoology. *Migration* Hugh Dingle, 2014

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.

Migration Leonard Sealey, 1973 *Ökologie der Wirbeltiere* Werner Suter, 2017-10-02 Das erste Lehrbuch zur Ökologie der Wirbeltiere. Der Wolf frisst einen Elch, der Luchs ein Reh, und der Habicht einen jungen Waldkauz. Was bedeutet

das für die Bestände der Beutetiere Vögel und Säugetiere zeigen als endotherme Wirbeltiere viele Gemeinsamkeiten in ihrer Biologie. Ausgehend von den theoretischen Grundlagen der Ökologie und mit einem konsequent evolutionsbiologischen Ansatz behandelt Ökologie der Wirbeltiere die Ernährung unter physiologischen und verhaltensökologischen Aspekten, die Fortpflanzung, die räumliche Ökologie auf allen Skalenebenen, Wanderungen, die Populationsbiologie sowie die Interaktionen zwischen Arten, nämlich Konkurrenz, Predation und Parasiten, und schließt mit einem Kapitel zur Naturschutzbiologie. Die theoretischen Grundlagen sind stets mit den aktuellen empirischen Befunden verknüpft. Diesen wird ein großes Gewicht beigemessen.

Handbook of Fish Biology and Fisheries Paul J. B. Hart, John D. Reynolds, 2008-04-15 Recent decades have witnessed strong declines in fish stocks around the globe amid growing concerns about the impact of fisheries on marine and freshwater biodiversity. Fisheries biologists and managers are therefore increasingly asking about aspects of ecology, behaviour, evolution and biodiversity that were traditionally studied by people working in very separate fields. This has highlighted the need to work more closely together in order to help ensure future success both in management and conservation. The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume subtitled Fish Biology reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology, recruitment, life histories, genetics, foraging behaviour, reproductive behaviour and community ecology. The second volume subtitled Fisheries uses much of this information in a wide ranging review of fisheries biology including methods of capture, marketing, economics, stock assessment, forecasting, ecosystem impacts and conservation. Together these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science. They will also be useful to researchers who need up to date reviews of topics that impinge on their fields and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems. To order volume I go to the box in the top right hand corner. Alternatively to order volume II go to <http://www.blackwellpublishing.com/book.asp/ref/063206482X> or to order the 2 volume set go to <http://www.blackwellpublishing.com/book.asp/ref/0632064838>. Provides a unique overview of the study of fish biology and ecology and the assessment and management of fish populations and ecosystems. The first volume concentrates on aspects of fish biology and ecology both at the individual and population levels whilst the second volume addresses the assessment and management of fish populations and ecosystems. Written by an international team of expert scientists and practitioners. An invaluable reference tool for both students, researchers and practitioners working in the fields of fish biology and fisheries.

Theologies on the Move Joerg Rieger, 2020-10-13 Theologies on the Move: Religion, Migration and Pilgrimage in the World of Neoliberal Capital speaks to the reality that many religions have developed in motion with people exploring new boundaries, migrating

and being displaced Consequently major religious traditions form as they come into contact with other religions and cultures typically in situations of struggle and pressure Due to neoliberal capitalism more people are on the move today than ever before Most are driven by necessity migration due to violence poverty and perceived poverty others by religious quests that are often fueled by experiences of tension pilgrimage The chapters in this volume explore the complexity of these situations examining in detail how theology and religion shape up in various contexts on the move and investigating specific problems and tensions in order to suggest solutions alternatives and new possibilities

Migration als Ort der Theologie Tobias Keßler, 2014-04-08 Migration ist ein prominentes Thema das unter verschiedensten Gesichtspunkten debattiert und analysiert wird Weniger im Blick ist dabei die theologische Relevanz des Ph nomens Jenseits der unterschiedlichen Herangehensweisen und theologischen Disziplinen die sie vertreten pl dieren die Autoren einstimmig f r eine migrationssensible Theologie die in der Globalisierung menschlicher Mobilit t ein Zeichen der Zeit erkennt Dabei wird deutlich dass Migration ihrerseits einen theologiegenerativen Ort verk rperet sodass hier und da bereits von einer Theologie der Migration die Rede ist

Youth on the Move Asnake Kefale, Fana Gebresenbet, 2021-12-01 A refreshing study of young Ethiopian migrants going beyond the usual host dominated narratives surrounding such upheaval to uncover the motivations of migrants themselves

Humans on the Move Grant Dawson, Rachel Laut, 2021-12-06 As global climate change continues to alter the environment humans are moving In this context human mobility can be an empowered adaptation strategy or an unwelcome necessity for survival with a high cost Existing legal frameworks provide only a patchwork of protection for some climate change mobility scenarios In Humans on the Move Grant Dawson and Rachel Laut investigate the development of an adaptive approach to climate change mobility and explore how transformational adaptation strategies can and must be integrated with a rights based approach

Methodologies on the Move Anna Amelina, Thomas Faist, Devrim Sel D. Nergiz, 2014-10-14 This volume establishes a new agenda for approaches to migration research and the corresponding methodologies A wide range of international contributors focus on the question of how to overcome the so called methodological nationalism within empirical studies on migration They address two main challenges how to contextualize the empirical research field and how to deal with national and ethnic categorizations within the empirical studies Methodologies on the Move outlines first of all a new epistemological basis for migration research which is pinpointing the relational concept of space Second building on the multi sited method of ethnography it provides detailed insights into novel qualitative and quantitative research designs Third it presents innovative data collection methods on geographic and virtual mobility and on cross border social practices This volume transcends the early criticisms of methodological nationalism in migration research and suggests both general methodological lines as well as helpful tools for empirical analysis This book was originally published as a special issue of Ethnic and Racial Studies

Aeroecology Phillip B. Chilson, Winifred F. Frick, Jeffrey F. Kelly, Felix Liechti, 2018-03-23 This book consists of a diverse collection of chapters that seeks to broaden our

fundamental understanding of the ecological function and biological importance of the Earth's lower atmosphere which provides a huge living space for billions of animals moving within and across continents. Their migration, dispersal, and foraging activities connect water and land habitats within and across continents. Drawing upon the wide-ranging experience of the authors, the book takes an inherently interdisciplinary approach that serves to introduce the reader to the topic of aeroecology, frame some of the basic biological questions that can be addressed within the context of aeroecology, and highlight several existing and emerging technologies that are being used to promote aeroecological studies. The book begins with several background chapters that provide introduction into such topics as atmospheric science, the concept of the habitat, animal physiology, and methods of navigation. It then continues with a broad discussion of observational methods available to and used by aeroecologists. Finally, several targeted examples of aeroecological studies are presented. Following the development of the chapters, the reader is provided with a unifying framework for investigating how the dynamic properties of meteorological conditions at local, regional, and global scales affect the organisms that depend on the air for foraging and movement. Material presented in the book should be of interest to anyone wishing to gain a comprehensive understanding of the aerosphere itself and the myriad airborne organisms that inhabit and depend upon this environment for their existence. The material should be accessible to a diverse set of readers at all stages of training and across a range of research expertise.

Jews on the Move Sidney Goldstein, Alice Goldstein, 2012-02-01 Based on data from the 1990 National Jewish Population Survey, the authors examine the high level of mobility among American Jews and their increasing dispersion throughout the United States and how this presents new challenges to the national Jewish community.

World on the Move Edward Liebow, 2025-05-13 Provides an encompassing overview of migration routes and dispersal of human populations around the world. *World on the Move* brings together the current state of knowledge about migration and displacement in a single, easily accessible volume. Written as a companion to *World on the Move: 250,000 Years of Human Migration*, a traveling exhibition developed by the American Anthropological Association and the Smithsonian Center for Folklife and Cultural Heritage, this thought-provoking book helps us reframe the ways we think and talk about migration. *World on the Move* opens by describing the basic patterns and processes of migration and discussing the evidence used to measure migration, displacement, and their impacts. Subsequent chapters trace major population movements through human history, review the different reasons that propel the movement of human populations, and illustrate the many ways that migration affects us all. The final section focuses on international and national policies on immigration and displacement, including perspectives on birthright citizenship, migrant mothers and their children, and migration driven by climate change. Drawing on a wealth of case studies of diverse cultures from across human history, *World on the Move* employs the Crossroads concept, an innovative narrative device that reveals connections between peoples, cultures, and moments when crucial decisions are made. Discusses ways research on migration and displacement have been used to support public policy.

Highlights the roles of ever evolving genetic archaeological and linguistic evidence in reshaping understanding of human population movements Explains basic terms patterns and processes of migration and displacement as well as various evaluation and interpretation methods Addresses timely and complex issues such as enslavement and trafficking border walls immigration policy and climate change Presenting the latest scholarship on the peopling of the continents World on the Move 250 000 Years of Human Migration is an excellent textbook for undergraduate courses in anthropology sociology political science cultural geography and immigration studies particularly those exploring migration displacement diaspora and immigration policy

Was ist ein Migrationsregime? What Is a Migration Regime? Andreas Pott, Christoph Rass, Frank Wolff, 2018-03-26 Der Begriff des Migrationsregimes erfreut sich großer Beliebtheit Er verspricht einen analytischen Zugriff auf die Komplexität der Beziehung von Migration und Regulation Dabei wird er jedoch sehr unterschiedlich genutzt und gedeutet Die Herausgeber des Sammelbandes verstehen diese Vielstimmigkeit als einen Aufruf zur Debatte Aufbauend auf einem längeren Austauschprozess auf Tagungen und Workshops haben sie Forscherinnen die zentrale Fachrichtungen einer interdisziplinären Migrationsforschung und deren unterschiedliche Perspektiven vertreten eingeladen die Grundannahmen Potentiale und Herausforderungen des Ansatzes zu diskutieren Die so versammelten kritischen Einsichten in ein Schlüsselkonzept der modernen Migrationswissenschaft leuchten Wege aus wie Fragen von Machtverteilung Agency und Aushandlung systematischer in die Migrationsforschung einbezogen werden können

Encyclopedia of Insects Vincent H. Resh, Ring T. Cardé, 2003-04-04 The Encyclopedia of Insects is a comprehensive work devoted to all aspects of insects including their anatomy physiology evolution behavior reproduction ecology and disease as well as issues of exploitation conservation and management Articles provide definitive facts about all insects from aphids beetles and butterflies to weevils and yellowjackets Insects are beautiful and dreadful ravenous pests and devastating disease vectors resilient and resistant to eradication and the source of great benefit and great loss for civilization Important for ecosystem health they have influenced the evolution of other life forms on our planet including humans Anyone interested in insects from university professors and researchers to high school students preparing a report will find The Encyclopedia of Insects an indispensable volume for insect information An unprecedented collection in 1 276 pages covering every important aspect of insects Presents 270 original articles thoroughly peer reviewed and edited for consistency Features 1 000 figures and tables including 500 full color photographs Includes the latest information contributed by 250 experts in 17 countries Designed to save research time with a full glossary 1 700 cross references and 3 000 bibliographic entries

Insect Movement Ian Woiwood, D. R. Reynolds, C. D. Thomas, 2001 Knowledge of insect movement particularly of flight is crucial to our understanding of the great ecological and evolutionary success of insects The last 20 years have seen many advances in this subject area New fields have arisen such as metapopulation theory and dramatic developments have taken place in methods of studying movement as a result of new techniques in molecular biology and radar monitoring There have also been advances in our knowledge of

flight related physiology and behaviour This book which is based on the main papers presented at the Royal Entomological Society's 20th Symposium held in September 1999 brings us up to date with these developments It contains chapters on flight mechanisms foraging movements migration the evolution of movement strategies the interactions between dispersal rates population structure and gene flow the effects of climate change on geographical distribution It is essential reading for entomologists and of interest to those researching animal behaviour physiology ecology and genetics

Wayfinding M. R. O'Connor, 2024-03-26 In this marvel of storytelling a journalist pursues the mysteries of human navigation across continents and deep within the brain Kirkus Reviews starred review Biologists have been trying to solve the mystery of how organisms have the ability to migrate and orient with such precision especially since our own adventurous ancestors spread across the world without maps or instruments In *Wayfinding* M R O Connor goes to the Arctic the Australian bush and the South Pacific to talk to masters of their environment who seek to preserve their traditions at a time when anyone can use a GPS to navigate O Connor explores the neurological basis of spatial orientation within the brain and how exercising our cognitive mapping skills can improve the health of our hippocampus She also talks to scientists studying how atrophy in the hippocampus is associated with afflictions such as impaired memory dementia Alzheimer's Disease depression and PTSD *Wayfinding* is a captivating book that charts how our species' profound capacity for exploration memory and storytelling results in topophilia the love of place

[Flexibility in the Migration Strategies of Animals](#) Nathan R. Senner, Yolanda E. Morbey, Brett K. Sandercock, 2020-06-29

Mammalogy George A. Feldhamer, Joseph F. Merritt, Carey Krajewski, Janet L. Rachlow, Kelley M. Stewart, 2020-03-24 A completely revised and updated edition of the leading mammalogy textbook featuring color photographs throughout and a new streamlined structure for enhanced use in courses There are more than 6400 species in the class Mammalia including the blue whale the largest animal that has ever lived and the pygmy shrew which weighs little more than a dime Such diversity among mammals has allowed them to play critical roles in every ecosystem whether marine freshwater alpine tundra forest or desert Reflecting the expertise and perspective of five leading mammalogists the fifth edition of *Mammalogy* Adaptation Diversity Ecology significantly updates taxonomy adds a new introductory chapter on the science of mammalogy and highlights several recently described species To enhance its appeal to students textual material has been reduced consolidated and streamlined without sacrificing breadth or depth of coverage The fifth edition includes for the first time stunning color photographs throughout chapters rearranged and grouped to best reflect phylogenetic relationships with updated numbers of genera and species for each family updated mammalian structural and functional adaptations as well as ordinal fossil histories recent advances in mammalian phylogeny biogeography social behavior and ecology with 12 new or revised cladograms reflecting current research findings new breakout boxes on novel or unique aspects of mammals new work on female post copulatory mate choice cooperative behaviors group defense and the role of the vomeronasal system discussions of the current implications of climate change

and other anthropogenic factors for mammals Maintaining the accessible readable style for which Feldhamer and his coauthors are well known this new edition of Mammalogy is the authoritative textbook on this amazingly diverse class of vertebrates

Africa on the Move Malte Steinbrink, Hannah Niedenführ, 2019-10-31 This book discusses migration and space spanning social network relationships as normal realities of life in African societies It offers an overview of the research landscape and introduces an agency centered theoretical model that provides a conceptual framework for translocality The authors Malte Steinbrink and Hannah Niedenführ plead for a translocal approach to social transformation showing how the translocality of livelihoods is shaping the lives of half a billion people on the continent and impacting local conditions Using an action oriented approach the book analyzes the effects of translocal livelihoods on diverse aspects of economic environmental and social change in rural Sub Saharan Africa The study thus makes an innovative contribution not only to migration research and development studies but also to the discussion around the policy and practice of development cooperation and planning It is time to rethink development in light of translocal realities The book appeals to scholars and researchers in geography sociology policy making and planning development studies migration research and rural development

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