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**Seasonality and  
Human Ecology**

**Edited by  
S. J. ULIJASZEK &  
S. S. STRICKLAND**

# Seasonality And Human Ecology

**Stephen Devereux, Rachel Sabates-  
Wheeler, Richard Longhurst**



## **Seasonality And Human Ecology:**

**Seasonality and Human Ecology** S. J. Ulijaszek, S. S. Strickland, 2009-03-19 Seasonality has effects on a wide range of human functions and activities and is important in the understanding of human environment relationships In this volume distinguished contributors including human biologists anthropologists physiologists and nutritionists consider many of the different ways in which seasonality influences human biology and behavior Topics addressed include the influence of seasonality on hominid evolution seasonal climatic effects on human physiology fertility and physical growth seasonality in morbidity mortality and nutritional state and seasonal factors in food production modernization and work organization in third world economies This book will be of interest to graduate students and researchers in human biology anthropology and nutrition

**Seasonality, Rural Livelihoods and Development** Stephen Devereux, Rachel Sabates-Wheeler, Richard Longhurst, 2013-07-03 Seasonality is a severe constraint to sustainable rural livelihoods and a driver of poverty and hunger particularly in the tropics Many poor people in developing countries are ill equipped to cope with seasonal variations which can lead to drought or flood and consequences for agriculture employment food supply and the spread of disease The subject has assumed increasing importance as climate change and other forms of development disrupt established seasonal patterns and variations This book is the first systematic study of seasonality for over twenty years and it aims to revive academic interest and policy awareness of this crucial but neglected issue Thematic chapters explore recent shifts with profound implications for seasonality including climate change HIV AIDS and social protection Case study chapters explore seasonal dimensions of livelihoods in Africa Ethiopia Kenya Malawi Asia Bangladesh China India and Latin America Peru Others assess policy responses to adverse seasonality for example through irrigation migration and seasonally sensitive education The book also includes innovative tools for monitoring seasonality which should enable more appropriate responses

**Twin peaks: the seasonality of acute malnutrition, conflict and environmental factors - Chad, South Sudan and the Sudan** Food and Agriculture Organization of the United Nations, 2019-09-19 To better understand the resilience and vulnerability of the populations in Chad the Sudan and South Sudan the Feinstein International Center Friedman School of Nutrition Science and Policy at Tufts University has drawn on available secondary data on nutrition environmental factors rainfall temperature and vegetation conflict and emergency events together with primary qualitative findings from eastern Chad and western Sudan prioritizing community perspectives The report findings underscore the importance of environmental variability and the persistence of climate conflict and other shocks in relation to livelihood resilience and transformation over time The findings also challenge long standing assumptions about the seasonality of malnutrition and present new findings on livelihoods in countries struggling with or seeking to recover from climate conflict and other disasters Many humanitarian programmes have been in continuous operation in eastern Chad Darfur and Bahr el Ghazal for over two decades From a community perspective the past 50 years have been a series of multiple and overlapping hazardous events many persisting for years

exacerbating their impact and eroding resilience At the same time the region is characterized by environmental variability including rainfall variability spatially as well as seasonally and over years and ecological diversity Farming and pastoralist livelihood systems characteristic of the region have co evolved in response to this environmental variability and have adapted to manage delayed rains and drier spells However the long history and protracted nature of many shocks combined with wider trends have contributed to pivotal changes and to transformations of these livelihoods although the dryland farming and pastoralist systems remain central to local livelihoods and the economy The role of seasonality is further reflected in the observed patterns of different types of conflict Our data reveal that the region has continued to suffer from high rates of acute malnutrition over the past 25 years with seasonal peaks regularly exceeding the emergency threshold of 15 percent Furthermore contrary to the assumption that in a unimodal rainfall system the peak of acute malnutrition occurs at the end of the lean season when food insecurity is at its peak our data show that there are two peaks of acute malnutrition The first and larger peak occurs at the end of the dry season It is followed by a slight improvement in acute malnutrition and then a secondary but smaller peak after the lean season Drawing on the qualitative community perspectives our analysis points to the seasonality of livelihood systems linked with environmental variability as the crucial determinants of the twin peaks through its effects on food security care and health The analysis also provides insights into the seasonality of different types of conflict part of which is also related to seasonality of livelihood activities The findings from this study have direct implications for household recovery resilience and nutrition and raise specific considerations for data collection future research programming and policy

Seasonal Patterns of Stress, Immune Function, and Disease Randy J. Nelson, Gregory E. Demas, Sabra L. Klein, Lance J. Kriegsfeld, 2002-03-25 This book presents evidence that infection is cyclical with the seasons and that this phenomenon is mirrored in cycles of immune function The book identifies the mechanisms by which immune systems are bolstered to counteract seasonally recurrent stressors such as extreme temperature reductions and food shortages Stress infectious diseases autoimmune diseases and human cancers are examined and the role of hormones such as melatonin and glucocorticoids is considered The book begins with an overview of seasonality biological rhythms and photoperiodism and basic immunology and then discusses seasonal fluctuations in disease prevalence immune function and energetics and endocrinology as they relate to immune function The clinical significance of this issue is also addressed as such seasonal changes may play an important role in the development and treatment of infections This first monograph to examine seasonal immune function from an interdisciplinary perspective will serve practitioners as well as advanced undergraduates and graduate students in biology immunology human and veterinary medicine neuroscience endocrinology and zoology

**Medicine and Evolution** Sarah Elton, Paul O'Higgins, 2008-06-02 Can an evolutionary perspective be integrated in day to day practice and is it of value in medical education and training If so when and how Highlighting exciting areas of research into the evolutionary basis of health and disease Medicine and Evolution Current Applications and Future

Prospects answers these questions and more I      **Seasonality in Primates** Diane K. Brockman, Carel P. van Schaik, 2005-11-17 The emergence of the genus *Homo* is widely linked to the colonization of new highly seasonal savannah habitats However until recently our understanding of the possible impact of seasonality on this shift has been limited because we have little general knowledge of how seasonality affects the lives of primates This book documents the extent of seasonality in food abundance in tropical woody vegetation and then presents systematic analyses of the impact of seasonality in food supply on the behavioural ecology of non human primates Syntheses in this volume then produce broad generalizations concerning the impact of seasonality on behavioural ecology and reproduction in both human and non human primates and apply these insights to primate and human evolution Written for graduate students and researchers in biological anthropology and behavioural ecology this is an absorbing account of how seasonality may have affected an important episode in our own evolution      **21st Century Anthropology: A Reference Handbook** H. James Birx, 2010-06-10 Highlighting the most important topics issues questions and debates these two volumes offer full coverage of major subthemes and subfields within the discipline of anthropology      *Human Ecology and Infectious Diseases* Neil A. Croll, John H Cross, 2013-09-03 *Human Ecology and Infectious Diseases* investigates the interrelationships among human behavior ecology and infectious diseases with emphasis on parasitic and zoonotic diseases The cultural behavioral anthropological and social factors in the transmission of infectious diseases are discussed along with methods used to make human ecology a more quantitative predictive science in the global challenge of such diseases Behavioral patterns that place humans at risk to infections and the nature of risk factors are also analyzed Comprised of 13 chapters this book begins with an overview of some of the research into those aspects of human behavior that determine risk of helminth infection The discussion then turns to studies on hookworm and includes an analysis of human behavior and religions that affect transmission of the parasitoses Human behavior and transmission of zoonotic diseases in North America and Malaysia are documented as are the habits customs and superstitions associated with the epidemic of intestinal capillariasis that occurred in the Philippines Filarial diseases in Southeast Asia are also reviewed along with the changing patterns of parasitic infections and the cooperation of government and the private sector to lower infection rates in Japan Cases from Nigeria and Brazil are considered as well The volume concludes with an assessment of the importance of behavioral and social cultural factors in determining regional and national patterns in disease incidence and transmission This monograph should be valuable to students of tropical diseases and public health and to physicians epidemiologists anthropologists veterinarians and parasitologists      **Human Ecology** Bernard Campbell, 2017-09-08 This new edition of a widely adopted primary and supplementary text explores human adaptations to environments over time It is biologically and culturally sophisticated drawing on an impressive array of archaeological and paleontological research Campbell proceeds from earlier simpler biomes to later more complex ones examining selected aspects of the prehistory and history of the human species *Human*

Ecology offers a succinct introduction to the history of these adaptations within ecosystems a shared concern among anthropologists biologists environmentalists and the general reader In the years since this book was first published the problems that the human species has faced have become more serious As predicted world population has rapidly increased and with it starvation malnutrition and disease Our precious environment is being devastated In particular the tropical rain forests our richest resource are being cut and burned at an alarming rate with the accompanying degradation of the forest soils Their flora and fauna including their human inhabitants are being destroyed All this is being done for short term financial gain without any long term planning or understanding of the risks involved There are no simple and humane short term solutions to the central problem of increasing population pressure In the long term the only hope of making possible a life of quality for all rather than a life of starvation and squalor is through education It is essential that we understand the limits that exist to the earth s productivity and the overriding importance of maintaining richly diversified fauna and flora If we understand how we arrived at this life threatening situation the resolution will become clear Non violent and viable solutions do exist and can be implemented but the human race first must understand and face up to the nature of its frightening predicament

*Does market access mitigate the impact of seasonality on child growth?* Abay, Kibrewossen, Hirvonen, Kalle, 2016-03-01 Seasonality in agricultural production continues to shape intra annual food availability and prices in low income countries Using high frequency panel data from northern Ethiopia this study attempts to quantify seasonal fluctuations in children s weights In line with earlier studies we document considerable seasonality in children s age and height adjusted weights While children located closer to local food markets are better nourished compared to their counterparts residing in more remote areas their weights are also subject to considerable seasonality Further analysis provides evidence that children located closer to food markets consume more diverse diets than those located farther away However the content of these diets varies across seasons children are less likely to consume animal source foods during the lean season

Seasonal Hunger and Public Policies Shahidur R. Khandker, Wahiduddin Mahmud, 2012-07-10 The book provides an exhaustive inquiry of Bangladesh s seasonal hunger with special focus on the northwest region where it is more pronounced than in other areas It also presents an evaluation of several policy interventions launched recently in mitigating seasonality

**The Evolutionary Biology of Human Body Fatness** Jonathan C. K. Wells, 2010 Integrates medical and evolutionary data on the role of body fat in human biology including the current obesity epidemic

*Reproductive Ecology and Human Evolution* Peter T. Ellison, 2017-09-04 The study of human reproductive ecology represents an important new development in human evolutionary biology Its focus is on the physiology of human reproduction and evidence of adaptation and hence the action of natural selection in that domain But at the same time the study of human reproductive ecology provides an important perspective on the historical process of human evolution a lens through which we may view the forces that have shaped us as a species In the end all actions of natural selection can

be reduced to variation in the reproductive success of individuals Peter Ellison is one of the pioneers in the fast growing area of reproductive ecology He has collected for this volume the research of thirty one of the most active and influential scientists in the field Thanks to recent noninvasive techniques these contributors can present direct empirical data on the effect of a broad array of ecological behavioral and constitutional variables on the reproductive processes of humans as well as wild primates Because biological evolution is cumulative however organisms in the present must be viewed as products of the selective forces of past environments The study of adaptation thus often involves inferences about formative ecological relationships that may no longer exist or not in the same form Making such inferences depends on carefully weighing a broad range of evidence drawn from studies of contemporary ecological variation comparative studies of related taxonomies and paleontological and genetic evidence of evolutionary history The result of this inquiry sheds light not only on the functional aspects of an organism s contemporary biology but also on its evolutionary history and the selective forces that have shaped it through time Encompassing a range of viewpoints controversy along with consensus this far ranging collection offers an indispensable guide for courses in biological anthropology human biology and primatology along with

**Seasonal Landscapes** Hannes Palang,Helen Sooväli,Anu Printsmann,2007-05-24 Seasonality is so obvious that it is typically omitted from landscape research It is expressed both in the natural rhythms of the landscape and in human lifestyles This book opens new perspectives on how seasons are perceived by people and societies in different parts of the world it offers interdisciplinary perspectives on seasonality research and discusses its applications to planning

The Archaeology of Human Ancestry Stephen Shennan,James Steele,2005-08-15 Human social life is constrained and defined by our cognitive and emotional dispositions which are the legacy of our foraging ancestors But how difficult is it to reconstruct the social systems and cultural traditions of those ancestors The Archaeology of Human Ancestry provides a stimulating and provocative answer in which archaeologists and biological anthropologists set out and demonstrate their reconstructive methods Contributors use observations of primates and modern hunter gatherers to illuminate the fossil and artefactual records Thematic treatment covers the evolution of group size group composition and the emotional structure of social bonds sexual dimorphism and the sexual division of labour and the origins of human cultural traditions The Archaeology of Human Ancestry is an essential introduction to the subject for advanced undergraduates and researchers in archaeology and biological anthropology It will also be used by workers in psychology sociology and feminist studies as a resource for understanding human social origins

Evolving Human Nutrition Stanley J. Ulijaszek,Neil Mann,Sarah Elton,2012-10-18 Exploration of changing human nutrition from evolutionary and social perspectives and its influence on health and disease past and present

**Understanding Human Ecology** Robert Dyball,Barry Newell,2023-06-30 Understanding Human Ecology offers a coherent conceptual framework for human ecology a clear approach for understanding the many systems we are part of and for how we frame and understand the problems we face Blending natural social and cognitive sciences with

dynamical systems theory this key text offers systems approaches that are accessible to all from the undergraduate student to policymakers and practitioners across government business and community In the first edition road tested and refined over a decade of teaching and workshops the authors built a clear inspiring and important framework for anyone approaching the management of complex problems and the transition to sustainability Fully updated for the second edition the book now goes further in using systems thinking principles to explain fundamental processes of change in social ecological systems Revised case examples provide a working application of these principles whilst a new discussion of the hierarchical structure of complex systems is included to guide practical policymaking This new edition is essential reading for students and scholars of human ecology environmental ethics and sustainability studies

**Social-Ecological Diversity and Traditional Food Systems** Ranjay Kumar Singh, Nancy J. Turner, Victoria Reyes-Garcia, Jules Pretty, 2021-11-29 This book draws on world wide experiences and valuable lessons to highlight community ecosystem interactions and the role of traditional knowledge in sustaining biocultural resources through community based adaptations The book targets different audiences including researchers working on human environment interactions and climate adaptation practices biodiversity conservators non government organizations and policy makers involved in revitalizing traditional foods and community based conservation and adaptation in diverse ecosystems This volume is also a source book for educators advocating for and collaborating with indigenous and local peoples to promote location specific adaptations to overcome the impacts of multiple biotic and abiotic stresses Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka This title is co published with NIPA

**Meat-eating & Human Evolution** Craig Britton Stanford, Henry T. Bunn, Henry Thomas Bunn, 2001 Preface Foreword Introduction I MEAT EATING AND THE FOSSIL RECORD 1 Deconstructing the Serengeti 2 Taphonomy of the Swartkrans hominid postcrania and its bearing on issues of meat eating and fire management 3 Neanderthal hunting and meat processing in the Near East evidence from Kebara Cave Israel 4 Modeling the edible landscape II LIVING NONHUMAN ANALOGS FOR MEAT EATING 5 The dog eat dog world of carnivores a review of past and present carnivore community dynamics 6 Meat and the early human diet insights from Neotropical primate studies 7 The other faunivory primate ins

The Biodemography of Subsistence Farming James W. Wood, 2020-04-23 Viewing the subsistence farm as primarily a demographic enterprise to create and support a family this book offers an integrated view of the demography and ecology of preindustrial farming Taking an interdisciplinary perspective it examines how traditional farming practices interact with demographic processes such as childbearing death and family formation It includes topics such as household nutrition physiological work capacity health and resistance to infectious diseases as well as reproductive performance and mortality The book argues that the farming household is the most informative scale at which to study the biodemography and physiological ecology of preindustrial non commercial agriculture It offers a balanced appraisal of the farming system considering its strengths and limitations as well as the



implications of viewing it as a demographic enterprise rather than an economic one A valuable resource for graduate students and researchers in biological and physical anthropology cultural anthropology natural resource management agriculture and ecology

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